0048533

Meeting Minutes Transmittal/Approval
Tri-Party Agreement Milestone Review Meeting
EPA Conference Room
November 26, 1996

From/ Appvl.: for Jackson Kinman — Date: 1-28-97
Charlie A. Hansen, RL
IAMIT Representative

Appvl.: Michael C. Wilson — Date: 1/28/97
Michael Wilson, Ecology
IAMIT Representative

Appvl.: Douglas R. Sherwood — Date: 1/28/97
Doug Sherwood, EPA
IAMIT Representative

Prepared by
Appvl.: Janice D. Williams — Date: 1/28/97
Janice D. Williams
Fluor Daniel Hanford, Inc.

RECEIVED JAN 1998 EDMC

Attendees

Alexander, S.	Ecology	B5-18	Mecca, J.	RL	R3-73
Arnold, L. D.	FDH	B2-35	Miera, F. R.	RL	A5-15*
Augustenborg, J.	RL	S7-53*	Rasmussen, D. E.	BWHC	N1-47*
Ellis-Balone, G.	RL	A5-15	Rasmussen, J. E.	RL	A5-15
Farabee, A.	RL	N2-36	Romine, L.	RL	R3-79
Foley, B.	RL	H0-12	Sanders, G. H.	RL	A5-15*
Gadbois, L.	EPA	B5-01	Selby, M. A.	Ecology	B5-18*
Gonzalez, R.	RL	R3-79	Sherwood, D.	EPA	B5-01*
Hajner, R. S.	BHI	H0-11	Skinnarland, R.	Ecology	B5-18*
Hansen, C. A.	RL	S7-41*	Stanley, R.	Ecology	Lacey
Hensley, J.	Ecology	B5-18	Wallace, J.	Ecology	B5-18*
Holland, D.	Ecology	B5-18	Weaver, P.	BWHC	L1-02
Holliday, K.	Ecology	B5-18	Williams, J. D.	FDH	B2-35
Holten, R.	RL	H0-12	Wilson, M. A.	Ecology	B5-18*
Hughes, M. C.	BHI	H0-12	EDMC		H6-08*
Julian, B	Ecology	B5-18			
Kinmark J. M.	Ecology	B5-18			

* W/Attachments

MILSTN.NOV

Meeting Minutes
TPA Milestone Review Meeting
EPA Conference Room
November 26, 1996

1. **Change Request M-15-96-14 (Milestone M-15-15E)**

The change request was presented by Bryan Foley, RL for signature and was approved by Ecology.

2. **CRCIA**

Rich Holton briefed the group on the status of the CRCIA change request. RL supports the change and will get the change request to the regulators once funding is concurred upon internally at RL. CRCIA comments, prepared by the HAB, were distributed (Attachment 1).

3. **ER Closeout Package**

Doug Sherwood, EPA requested that the ER closeout package be shared with the HAB to fulfill the requirements of the TPA.

Action: **Rich Holten (will be passed to Linda Bauer) to complete briefing at the ER-HAB meeting December 4, 1996.**

4. **IAMIT Directive**

Melodie Selby discussed "point-of-order" on IAMIT items, reminding all project managers of the IAMIT Directive.

Action: **Re-send the IAMIT Directive that requires the Project Managers to meet and discuss program status items prior to the milestone review meeting.**

Actionee: **Ron Morrison, TPAI**

5. **Environmental Restoration**

The Quarterly Review was presented by Rich Holten (Attachment 2). Corrections were made to the attachment as shown.

Action: **EPA requested the detail on how line 82 (Attachment 3): 300-FF-1 (FY 1997 Project Forecast Summary) work will be accomplished.**

Actionee: **Mike Hughes, BHI (ER Prioritization meeting 12/6 may be used to resolve this).**

Action: Doug Sherwood, EPA requested that Ecology/RL resolve the Ecology grant that is under run. Funds should be identified to reallocate to ER.

Actionee: Felix Miera, RL

6. Transition Projects

M-80 Purex Transition Project (Attachment 4) was reviewed by Rick Gonzalez, RL.

Action: Present year end budget summary to Safety and Waste Management sub committee of the HAB (Paragraph 149 TPA requirement)

Actionee: Mecca/Gonzalez, RL

7. M-81 Advanced Reactors

The reactor discussions began with an update of a recent lost time accident. Then an overview of M-81 FFTF (Advanced Reactors) (Attachment 5) was presented by Al Farabee, RL. No action items were identified, however, EPA did express a concern that clean-up funds would be used to study tritium alternatives. RL stated that EM funds will be used to finish the Sodium Storage Facility, but, Defense Programs would fund an EIS, safety analysis, and design.

8. B-Plant/WESF

B-Plant/WESF (Attachment 6) was presented by D. L. Evans, RL (Program Manager). Final Milestone Package on B-Plant is still un-signed.

Action: Ecology will find or re-start a clean copy at Ecology for signature.

Actionee: Roger Stanley

9. 324 Building M-89

An overview of M-89, 324 Building Closure (Attachment 7) was presented by Larry Romine, RL Program Manager. RL reaffirmed that they plan to resolve non-permitted TSD issues as planned. No action items were identified.

AGENDA

TRI-PARTY AGREEMENT MAJOR MILESTONE MANAGEMENT REVIEW
(CHAIRPERSON: C. A. HANSEN)

TUESDAY, NOVEMBER 26, 1996

EPA CONFERENCE ROOM
712 SWIFT BLVD., RICHLAND

TIME	MILESTONE	TITLE	RL DIVISION DIRECTOR	CONTRACTOR MANAGER	PRESENTER
10:30 am	M-13-00	Complete RI/FS Submittals	R. A. Holten	T. M. Wintczak	R. A. Holten
	M-15-00	RI/FS Process Completion	R. A. Holten	T. M. Wintczak	R. A. Holten
	M-16-00	Complete Remedial Actions	R. A. Holten	T. M. Wintczak	R. A. Holten
11:15 am	M-80-00	Purex/UO3 Facility Transition	J. E. Mecca	R. W. Bailey (BWHC) L. J. Olguin (FDH)	R. X. Gonzalez
	M-81-00	FFTF Facility Transition	J. E. Mecca	E. F. Loika (BWHC) L. J. Olguin (FDH)	O. A. Farabee
	M-82-00	B-Plant Transition	J. E. Mecca	R. E. Heineman (BWHC) L. J. Olguin (FDH)	R. X. Gonzalez
	M-89-00	324 Bldg. Closure of MW Units	J. E. Mecca	G. O. Hayner (BWHC) L. J. Olguin (FDH)	R. X. Gonzalez

ATTENDEES

TPA MILESTONE REVIEW

DATE: 11-26-96

NAME	ORGANIZATION	MAILSTOP	(√) FOR ATTACHMENTS
Bob Julian	Ecology	B5-18	
Dave Holland	Ecology	B5-18	
Keith Holliday	Ecology	B5-18	
Larry Gadbois	EPA	B5-01	
Bryan Foley	DOE-RL	H0-12	
Tim Mecca	DOE-RL	R3-73	
Steve Alexander	Ecology	B5-18	
Rick Gonzalez	DOE-RL	R3-79	
Larry Romine	DOE-RL/TPD	R3-79	
Dave E. Rasmussen	BWHC/300 Area Stabilize. Proj.	N1-47	✓
Jerry Hensley	Ecology	B5-18	
Joanne Wallace	Ecology	B5-18	✓
Patrick Weaver	BWHC	L1-02	
AL Favorbew	DOE	N2-36	

ATTENDEES

TPA MILESTONE REVIEW

DATE: 11-26-96

NAME	ORGANIZATION	MAILSTOP	(√) FOR ATTACHMENTS
Janice Williams	TPA I	B2-35	
ROGER STANLEY	Ecology		
Doug Sherwood	EPA	B5-01	
Melodie Selby	Ecology	B5-18	✓
MIKE WILSON	ECOLOGY	—	✓
Jay Augustenborg	RL/AMW	S7-55	✓
RA Holten	DOE		
R. SCOTT HAJNER	BHI	HO-11	
M.C. Hughes	BHI	HO-13	
Felix R. Mireles	RL/EAP	A5-15	✓
Jim Rasmussen	RL/EAP	A5-15	
George Sanders	RL/EAP	A5-15	
Larry Lucas	FDH/TPAI	B2-35	
Ron Skinnarland	ECOLOGY		✓
Geneva Ellis-Balone	RL/EAP	A5-15	

Attachment:
TPA Milestone
Meeting
11/26/96

EnviroIssues

TRI

SERVING THE HANFORD ADVISORY BOARD

FAX COVER SHEET

Date: November 26, 1996

To: Environmental Restoration Committee (see distribution below)

From: Colette Casey
Fax: 509-943-5528
Voice: 509-943-1804

Number of pages including cover sheet ___5___

Message:

Attached please find the December 3rd committee meeting agenda and draft advice on the Columbia River Comprehensive Impact Assessment.

Distribution:

Linda Bauer	Martin Bensky	Madeleine Brown	Chris Burford
Shelley Cimon	Chuck Cline	Denny Condotta	Greg deBruler
John Erickson	Dennis Faulk	Ben Floyd	Dib Goswami
Mark Hermanson	Ray Isaacson	Maureen McCarthy	Deane Morrison
Nancy Myers	Ralph Patt	Max Power	Merilyn Reeves
Gordon Rogers	Pat Serie	Phil Staats	Mike Thompson
Nancy Werdel	Barb Wise	Jon Yerxa	

EnviroIssues (Facilitation) (206) 343-7701
Technical Resources International, Inc.
(Administration) (509) 943-1804
723 The Parkway, Suite 200
Richland, WA 99352

Date: 25 November 1996

To: Environmental Restoration Committee

From: Ralph Patt

Subject: Draft Recommendations to HAB for Advice on Columbia River Comprehensive Impact Assessment

At the November HAB meeting, we received a briefing on the Columbia River Comprehensive Impact Assessment. Discussion by the Board indicated support for this assessment, particularly Phase 2, as recommended by the steering committee. The ER Committee was asked to prepare draft consensus advice for the December HAB meeting to recommend continuation of funding for this project. Enclosed is initial attempt to frame the issues and concerns relating to the Columbia River Comprehensive Impact Assessment. Please review these and come to the ER Committee meeting on December 3 prepared to discuss how to develop these into draft consensus advice. I will be on vacation until the Committee meeting so please direct any questions you have about this to Louise Dressen, EnviroIssues, at (206) 343-7701.

DRAFT CONCERNS ABOUT THE COLUMBIA RIVER COMPREHENSIVE IMPACT ASSESSMENT

The Hanford Advisory Board received a status report on the Columbia River Comprehensive Impact Statement being performed for DOE at its November 1996 meeting. The Board was particularly interested in the recommendations of the steering committee on Phase 2 of the Impact Assessment. The purpose of Phase 2 of the assessment is to examine the impacts on the Columbia River in the future when groundwater contamination plumes from the Hanford Site reach the River. Because this assessment would evaluate impacts on the river from all current and future sources at the Hanford Site, it would provide a systematic analysis of cumulative impacts to guide decisions on cleanup actions.

Related HAB Principles

The recommendations of the steering committee for Phase 2 of the Columbia River Comprehensive Impact Assessment relate to a number of the values and principles adopted by the Hanford Advisory Board, including the following:

- Protect the Columbia River.
- Deal realistically and forcefully with groundwater contamination.
- Use systems design approach that keeps endpoints in mind as intermediate decisions are made.
- The importance of ecological diversity and recreational opportunities should be recognized; those resources should be enhanced as a result of cleanup and waste management decisions.
- These concerns should be considered while promoting the most effective and efficient actions that will protect environmental quality and public health and safety now and for future generations.

Environmental Restoration Committee Concerns

The Environmental Restoration Committee has several concerns and recommendations with respect to the Columbia River Comprehensive Impact Assessment, including the following:

1. Currently funded work for the Columbia River Comprehensive Impact Assessment is focussed on immediate problems of contamination in the River such as islands, outlet pipes, and so on. However, the major potential impact to the River will occur at some time in the future when groundwater contamination plumes on the Hanford Site reach the River. Phase 2 of the assessment is intended to address both current and future impacts on the River.

2. The Hanford Advisory Board has recommended in previous consensus advice (#13, #34, and #38) that there is a need for an integrated approach that evaluates the cumulative impacts of the various cleanup alternatives for the Hanford Site. The Phase 2 Columbia River Comprehensive Impact Assessment would provide a mechanism for such an integrated and systematic analysis.

3. The scope of the Phase 2 Columbia River Comprehensive Impact Assessment needs to be coordinated with the sitewide groundwater strategy to ensure that potential impacts to the River are adequately considered in decisions on how to proceed with groundwater cleanup and priorities to be given to these cleanup activities.

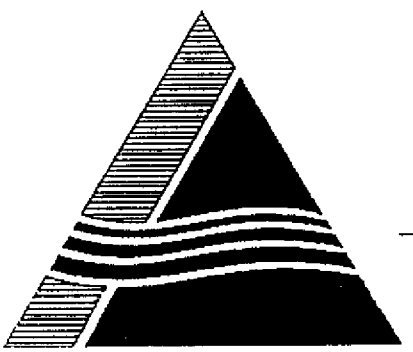
4. The Phase 2 Columbia River Comprehensive Impact Assessment needs to be coordinated with plans for vadose zone characterization to ensure that these characterization activities adequately address the gaps and uncertainties in data and models for movement of contaminants through the vadose zone into the groundwater and subsequently to the River.

5. The FY97 budget does not include any funding for Phase 2 of the Columbia River Comprehensive Impact Assessment. Funding should be provided for continuing work on the Phase 2 work in FY97 to coordinate the development of the scope of activities with the sitewide groundwater strategy and vadose zone characterization activities. Budget requests for outyears should also give high priority to funding to conduct the Phase 2 assessment.

TPA Review
11/26/96

Richland Environmental Restoration Project

TPA Quarterly Review



Tri-Party Agreement

U.S. Department of Energy
U.S. Environmental Protection Agency
Washington State Department of Ecology

November 26, 1996

Tri-Party Agreement Quarterly Review

Environmental Restoration (Milestones: M-13, M-15, M-16, M-20)

A G E N D A

November 26, 1996 (10:30 a.m. to 1:35 p.m.)

Topics	Discussion Leader	Time
Program Assessment & TPA Milestone Overview	Rich Holten	10:30 AM
Progress / Lookahead.....	Rich Holten	10:45 AM

- 4th Qtr Accomplishments
- 120-Day Milestone Lookahead
- Significant Issues
- Cost & Schedule Performance & Variances (*By Exception*)

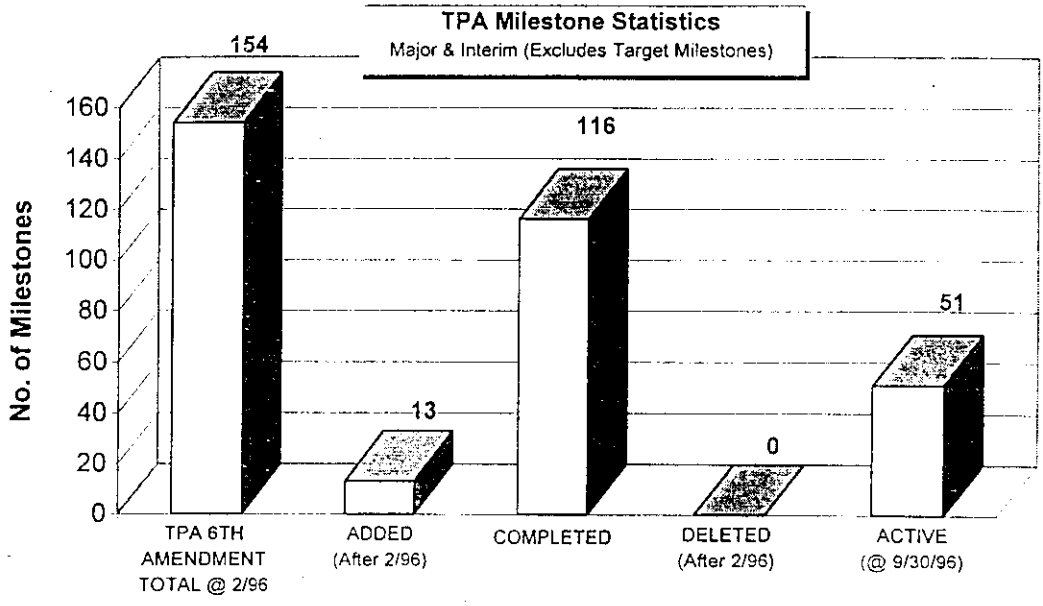
Special Topics ..... 11:00 AM

1 Alternatives to offset the $13.0 million funding shortfall

2 Change Requests

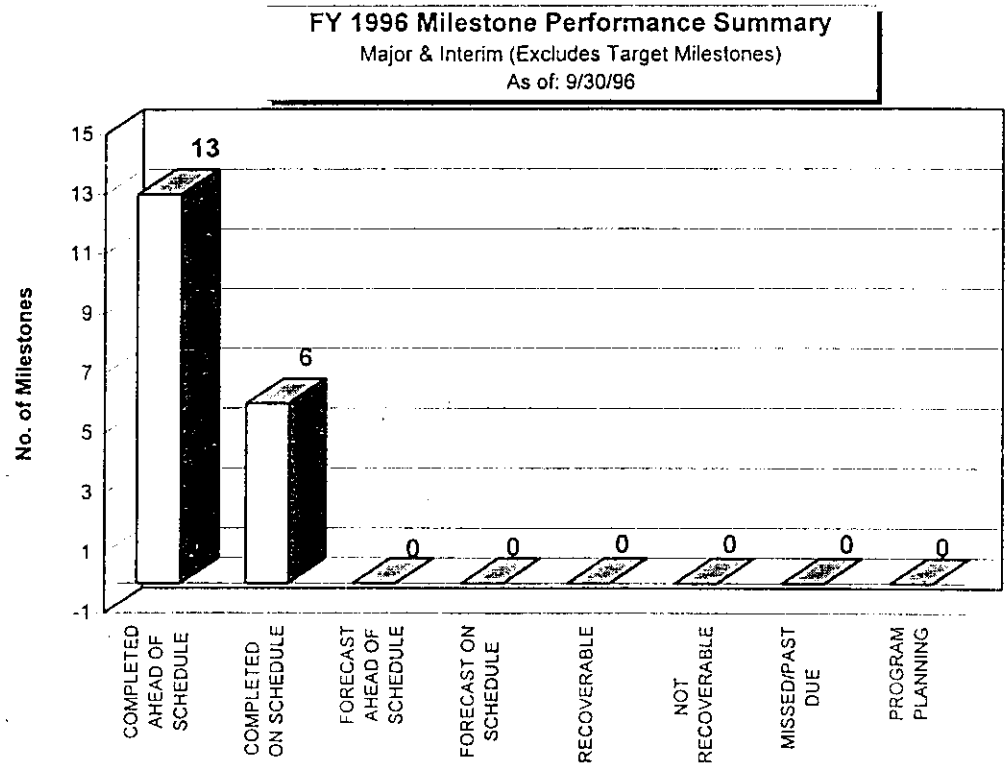
3

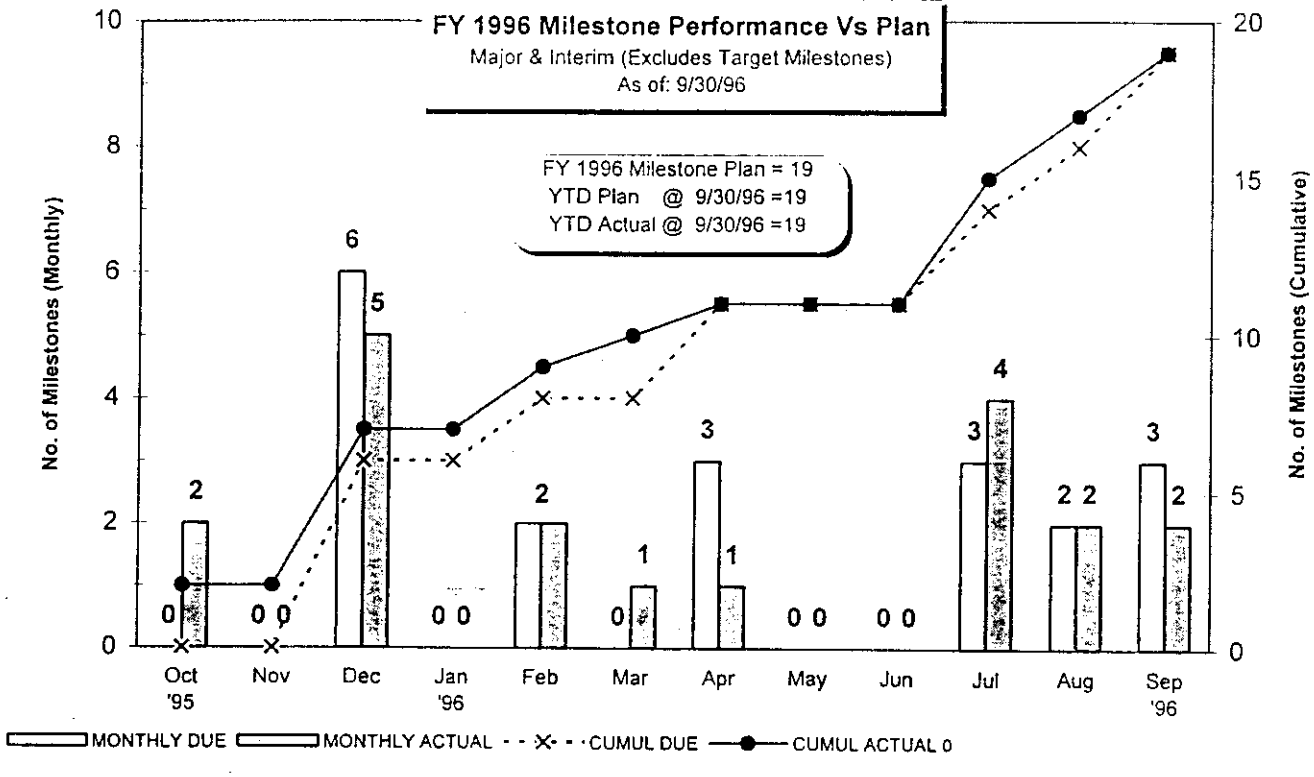
Table of Contents



TPA Milestone Statistics
Major & Interim (Excludes Target Milestones)

	Completion Date	Total @2/96	Added After 2/96	Completed @ 9/30/96	Deleted After 2/96	Active @ 9/30/96
M-13-00 Submit Workplans for RFI/CMS or RI/FS Studies	6/30/06 (M-13-00Q)	34	0	19	0	15
M-15-00 Site Investigations / Feasibility Studies	12/31/08 (M-15-00C)	84	1	75	0	10
M-16-00 Remedial Design / Remedial Action	9/30/18 (M-16-00)	20	12	12	0	20
M-20-00 Submit Closure Plans for All RCRA TSD Units	2/28/00 (M-20-00)	13	0	7	0	6
M-70-00 ERDF Operational	9/30/96 (M-70-00)	3	0	3	0	0
TOTAL		154	13	116	0	51


FY 1996 Milestone Performance Summary
Major & Interim (Excludes Target Milestones)
As of: 9/30/96
No. of Milestones
15
13
11
9
7
5
3
1
-1
13
6
0
0
0
0
0
0
COMPLETED AHEAD OF SCHEDULE
COMPLETED ON SCHEDULE
FORECAST AHEAD OF SCHEDULE
FORECAST ON SCHEDULE
RECOVERABLE
NOT RECOVERABLE
MISSED/PAST DUE
PROGRAM PLANNING


FY 1996 Milestone Performance Vs Plan
Major & Interim (Excludes Target Milestones)
As of: 9/30/96
FY 1996 Milestone Plan = 19
YTD Plan @ 9/30/96 =19
YTD Actual @ 9/30/96 =19
No. of Milestones (Monthly)
No. of Milestones (Cumulative)
10
8
6
4
2
0
20
15
10
5
0
2
0
0 0
6
5
0 0
2
0
1
3
1
0 0
0 0
3
4
2 2
3
2
Oct '95
Nov
Dec
Jan '96
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep '96
MONTHLY DUE
MONTHLY ACTUAL
CUMUL DUE
CUMUL ACTUAL 0

FY 1996 TPA Milestone Summary
(Excludes Target Milestones)

Item	FY96 Month	Milestone	Description	Due Date	Forecast Actual Date	Completed		Forecast	Forecast	Recov-	UnRecov-	Missed	Program
						Ahead Schedule	On Schedule	Ahead Schedule	On Schedule	erable	erable	Past Due	Planning
1	Dec-95	M-15-33B	Submit 100-KR-2 IRM Proposed Plan	12/29/95	10/20/95A	x							
		*M-13-001	Submit Planning Documentation Necessary to complete the RI/FS Work Plan Process for 100-FR-2 and 100-KR-2 (includes former 100-KR-3)	12/31/95	3/31/95A	*x							
2		M-16-05A	Submit Construction completion reports for the remaining 1100 Area OUs	12/31/95	12/21/95A	x							
3		M-15-81A	Provide report coordinating Regulatory Compliance for RCRA /CERCLA	12/31/95	12/21/95A	x							
4		M-15-25	Submit 200-PO-1 Phase I RCRA Field Investigation (RFI)	12/31/95	12/21/95A	x							
5		M-15-13G	Submit the 100-FR-3 FFS to Regulators	12/31/95	12/22/95A	x							
6		M-15-13H	Submit the 100-FR-3 Focus Package to Regulators	12/31/95	12/22/95A	x							
7	Feb-96	M-16-12E	Submit Letter report that evaluates the P/T Facility effectiveness	2/28/96	2/26/96A		x						
8		M-16-12B	Complete Construction/Installation of Sheet Pile Barrier Wall	2/28/96	2/26/96A		x						
9	Apr-96	M-15-15C	Submit the Draft 200-UP-2 FFS report to Regulators	4/30/96	2/16/96A	x							
10		M-15-15D	Submit the Draft 200-UP-2 IRM Proposed Plans to Regulators	4/30/96	4/22/96A	x							
11		M-15-81B	Submit the Iodine 129 Study to Regulators	4/30/96	10/12/95A	x							
12	Jul-96	M-15-12A	1/100-NR-2	7/31/96	7/22/96A		x						
13		M-16-08A	Initiate Remedial Action for 100-BC-1 OU	7/31/96	7/15/96A	x							
14		M-15-25A	Submit 200-PO-1 Corrective Measures Study (CMS)	7/31/96	7/31/96A		x						
15	Aug-96	M-15-25B	Submit 200-PO-1 Permit Modification	8/30/96	8/29/96A		x						
16		M-16-04A	Initiate operation of 150 gpm treatment system at 200-ZP-1	8/31/96	8/05/96A	x							
17	Sep-96	M-15-23A	Submit the LFI for 300-FF-2 to Regulators	9/30/96	9/24/96A	x							
18		M-70-00	ERDF is Operational	9/30/96	7/01/96A	x							
19		M-15-35	Complete Investigative Derived Waste (IDW) disposal for 37 waste sites included in the IROD for 100-BC-1, 100-DR-1 and 100-HR-1	9/30/96	9/30/96A		x						
			FY 1996 Total TPA Milestones			13	6	0	0	0	0	0	0

* FY 1996 TPA Milestone was completed in FY 1995 and is not included in above count.

This Quarter's TPA Change Requests (July - September 1996)

M-16-96-02
200-ZP-1 OU

M-16-04A Initiate operation of a 150 gpm treatment system for 200-ZP-1 OU, due date of 8/31/96.

M-16-04B Complete the 300-500 gmp treatment system upgrades 200-ZP-1 OU, due date of 8/31/97.

M-16-96-05
100 Area
Groundwater

Change Request M-16-96-05 created five (5) new Tri-Party Agreement Milestones.

M-16-06-T01 Submit the 100-HR-3/100-KR-4 Operations Waste Management Plan, Draft A, to EPA/Ecology due date January 31, 1997

M-16-06A Submit the 100-HR-3/100-KR-4 Performance Monitoring Plan, Draft A, as a primary document, to EPA/Ecology, due date Januray 31, 1997

M-16-06B Begin system operations on 100-HR-3 OU due date of July 31, 1997

M-16-11 Begin system operations on 100-KR-4 OU due date of October 1, 1997

M-16-06C Submit Performance Evaluation Report for the 100-HR-3/100-KR-4 OUs to EPA/Ecology, due date of April 30, 1998

This Quarters Accomplishments (July - September 1996)

BC - 1

M-16-08A

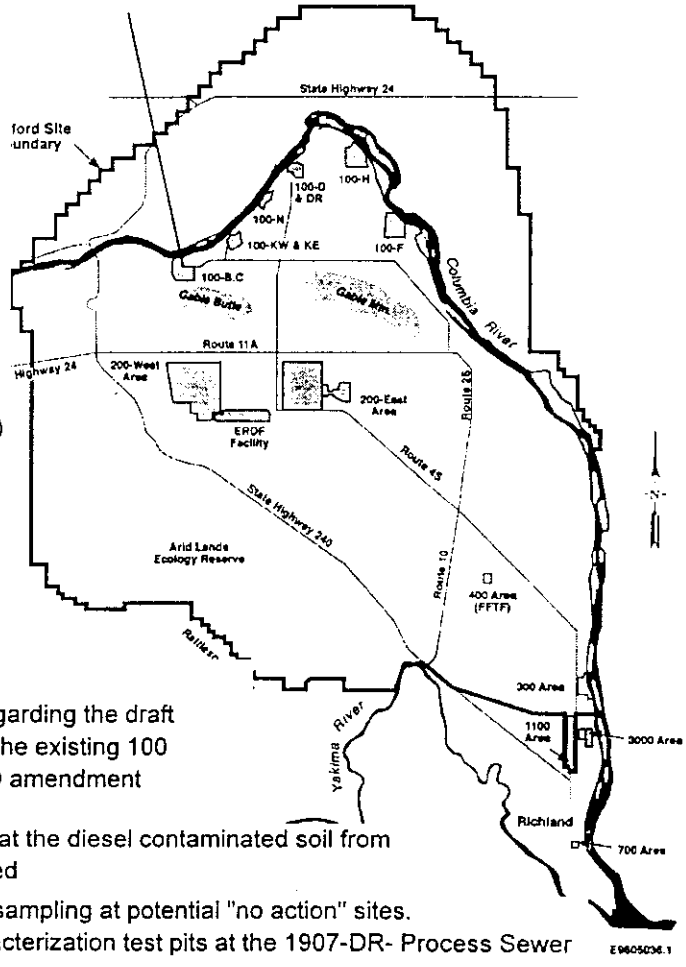
- Initiate Remedial Action for **100-BC-1** by July 31, 1996 was completed by excavation of **116-C-1** trench on July 15, 1996, two weeks ahead of schedule

M-15-35

- Complete Investigative Derived Waste (IDW) disposal for 37 waste sites included in the ROD for 100-BC-1, 100-DR-1, and 100-HR-1
- Excavated 14,071 Lcy form the **116-C-1** trench and the **116-C-5** retention basin
- Loaded 1,571 Lcy of waste from the **116-B-4** French drain

DR-1

- Completed remedial design (Group 2 sites)
- Completed installation of utilities for the Central Support Facility
- Initiated readiness evaluation activities in preparation for field remediation
- Issued Remedial Action contract to RCI
- Contaminated sediments from 100-D Ponds were removed and confirmation samples were collected
- Readiness Evaluation Plan (BHI-00902) was drafted



100 Area Common

- Initiated discussions with Regulators regarding the draft ESD for adding 34 liquid waste sites to the existing 100 Area Record of Decision (ROD). A ROD amendment may be required instead of an ESD
- Confirmation was received from EPA that the diesel contaminated soil from 100-IU-1 was successfully bioremediated
- Prepared a draft SAP for confirmatory sampling at potential "no action" sites.
- Completed the final report for the characterization test pits at the 1907-DR- Process Sewer Outfall.

Technologies/Innovations and Cost Savings:

- The Technology Applications Group has developed a characterization toolbox for use in the 618-4 burial ground. This was outlined in a report issued in August. They identified six commercially available technologies (to be used in combination with improvements in date interpretation) to create a 3-D map that estimates the probability that each soil block is contaminated, which can be used to guide the excavation process. The candidate technologies are as follows: 1) Magometer (STOLS) 2) GRP (with imaging) 3) Electromagnetic Offset Logging (EOL) 4) Cone-penetrometer (or sonic push) 5) Spectral Gamma (gross gamma)

This Quarters Accomplishments (July - September 1996)

200 Area

- TPA Change Request was initiated in support of the 200 Area Strategy as well as presenting to the HAB
- Cost estimates for a stand-alone Closure/Post-Closure Plan for the 216-U-12 Crib TSD was developed and will be used to support future requests

300 Area

FF-1

- ***Record of Decision*** (ROD) was signed July 17 by RL and EPA
- The **remedial action** contract proceeded with six amendments, a clarification period, and three extensions.
- Construction support facility was awarded on September 13, 1996. Clearing and grubbing, graveling the parking area, excavation of utility trench, and relocation of trailers was completed
- The Remedial Design Report (RDR)/Remedial Action Work Plan (RAWP) was transmitted to RL for Regulator review and comments. This document includes the SAP

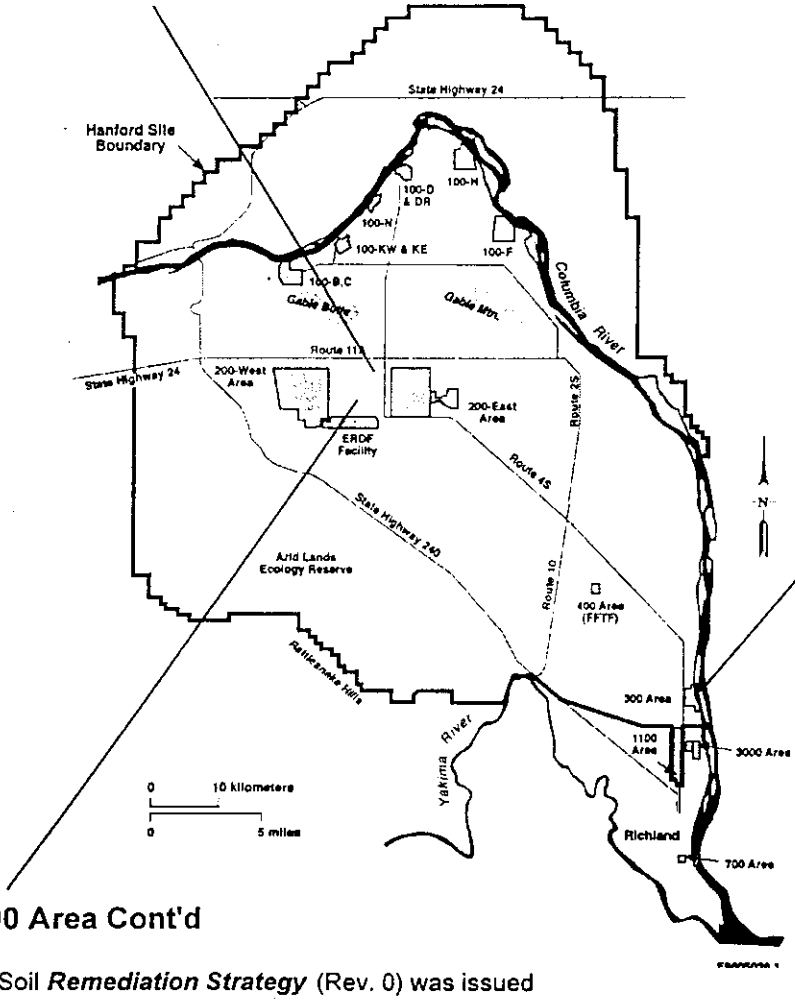
FF-2

M-15-23A

- Limited Field Investigation Report was completed
- Field work to upgrade the 699-S6-E4A well was completed

FF-5

- ***Operation & Maintenance Plan*** (Rev. 0) was transmitted to RL for Regulator review. The Operable Unit was transferred to ADS 3800



200 Area Cont'd

- Soil ***Remediation Strategy*** (Rev. 0) was issued
- Finalized scope of work for FY97 that included the prototype monitoring and asphalt testing. Settlement and subsidence work was deferred to FY98. Work on the prototype barrier irrigation, vegetation monitoring, and animal intrusion monitoring is ongoing. The **Letter of Instruction** (LOI) and accompanying work order for FY97 work was issued to PNNL
- Prepared draft focus sheets for the prototype barrier program and the 200 Areas strategy document

This Quarters Accomplishments (July - September 1996)

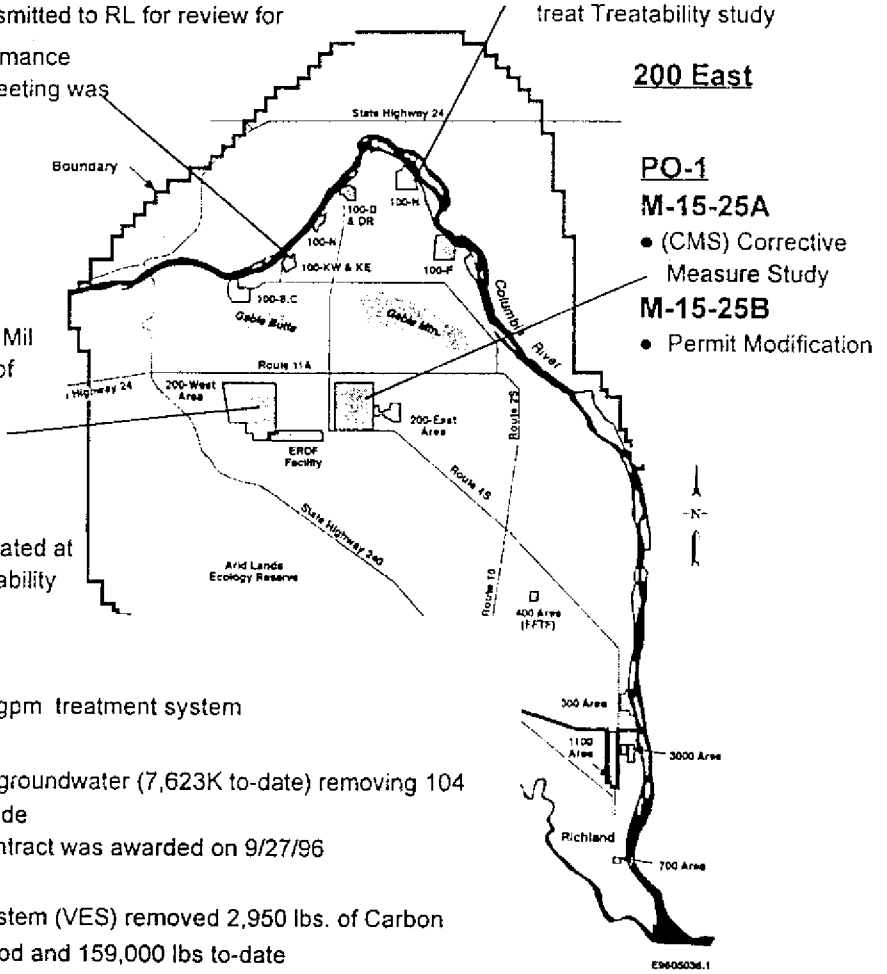
100 Area

KR-4/HR-3

- IRM pump & treat system construction contractor mobilized to both sites
- ***Mitigation Action Plan*** (Draft A), was forwarded to RL for transmittal to Regulators. The Natural Resources Board will review and comment on this document
- Rev. 0, ***Site-Specific Waste Management Instruction*** for KR-4 was transmitted to RL and signed
- ***Remedial Design Report and Remedial Action Work Plan*** (Rev. 0), was transmitted to RL for review for
- The first Tri-Party performance monitoring plan DQO meeting was completed successfully

HR-3

- The system has processed 3,045K gal for the period with 15,322K gal to-date and **119 lbs** of **Chromium** removed
- The system performance was significantly greater than anticipated in mass removal and reduction in observed concentrations
- Treatability study was shut down and placed in safe storage configuration on August 12. Shutdown completes the 100-HR-3 pump & treat Treatability study



200 East

PO-1

M-15-25A

- (CMS) Corrective Measure Study

M-15-25B

- Permit Modification

200 West

UP-1

- Treated 5 Mil gal with 29 Mil gal to date with removal of approximately 86 lbs of Uranium, 1.2 oz. of Technetium and 15 lbs of Carbon Tetrachloride
- Phase I system has operated at approximately 98% availability

ZP-1

M-16-04A

- Initiate operation of 150 gpm treatment system
- Treated 575K gallons of groundwater (7,623K to-date) removing 104 lbs of Carbon-Tetrachloride
- Phase II construction contract was awarded on 9/27/96

ZP-2

- Soil Vapor Extraction System (VES) removed 2,950 lbs. of Carbon Tetrachloride for the period and 159,000 lbs to-date
- The three VES systems have operated at a combined availability of 90.1% for FY 1996

100 Area NPL

- The *Conceptual Site Models for Groundwater Contamination at 100-BC-5, 100-KR-4, 100-HR-3 and 100-FR-3 OUs, BHI-00917 Rev. 0*, was completed and transmitted to RL
- *Hanford Site Background; Part 3, Groundwater Background Report* was completed and transmitted to RL
- Supported decision and documentation processes for designating the groundwater underlying the 100-IU-2 and 100-IU-5 source OUs as part of the 100-FR-3 groundwater OU
- *Rev. 0, Chromium in River Substrate Pore Water and Adjacent Groundwater: 100-D/DR Area, Hanford Site, Washington*, was completed and transmitted to RL
- *Rev. 0, Laboratory Scale Stabilization of N Springs Groundwater Stronium-90 Using Phosphatic Materials*, was completed and transmitted to RL
- *Rev. 0, Permeable Barrier Materials for Strontium Immobilization,* was completed and transmitted to RL *1) UFA Determination of Hydraulic Conductivity 2) Column Sorption Experiments*

This Quarters Accomplishments (July - September 1996)

M-70-00

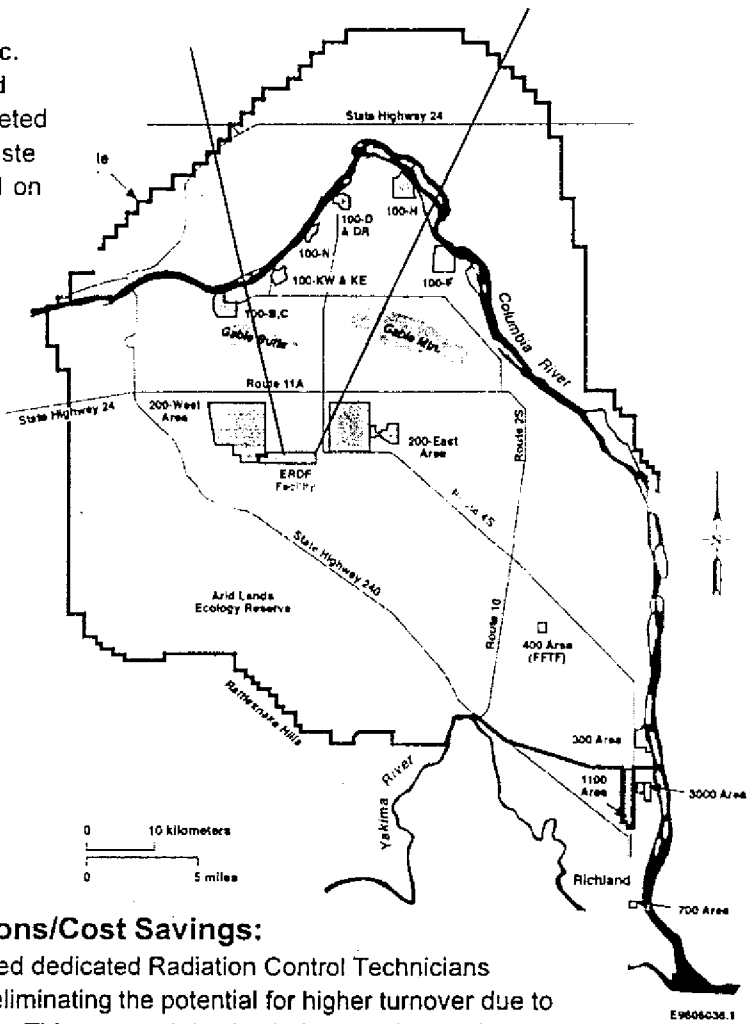
- Begin operation of ERDF by September 30, 1996
  was met with the delivery of waste on July 1, 1996

Operations:

- Received first waste delivery from **116-B-4 French Drain** on July 1, 1996
- Received 22,066 tons of waste during September 1996 bringing the quarter receipts to 37,231 tons
- A contract for paving the approach road (the southern extension of Route 3) to ERDF has been awarded to A&B Asphalt from Benton City, WA. The startup will be coordinated with the completion of the cross-site transfer line

Transportation:

- **RCI Environmental, Inc.** transportation plans and procedures were completed
- Transported the first waste excavated from **116-C-1** on July 15, 1996



Technology Innovations/Cost Savings:

- The ERDF project secured dedicated Radiation Control Technicians for operations, thereby, eliminating the potential for higher turnover due to bumping within the union. This approach is also being considered for HAMTC truck drivers and maintenance personnel

This Quarters Accomplishments (July - September 1996)

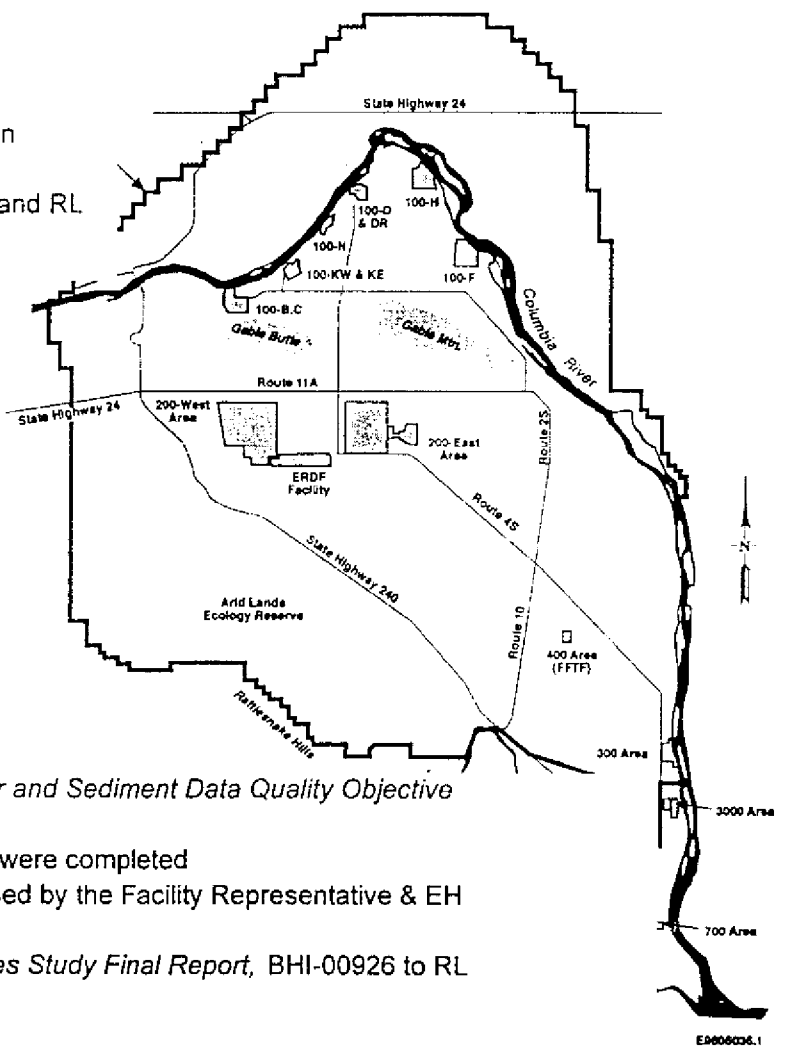
N-SPRINGS

- Awarded the Pump & Treat upgrade contract
- Comments were received from Ecology and RL on 1301-N/1325-N LFI/QRA report
- ***In-Situ Treatability Test Plan (Rev. 0),*** was issued for public review
- Design effort on the *In-Situ treatment Zone* was restarted
- Submitted **M-15-12C,** *100-NR-1/100-NR-2 OUs Corrective Measures Study/Closure Plan*, decisional draft to RL for comments to be incorporated in draft A
- Issued the *In-Situ Treatment Zone* design documents to Procurement to support the roadwork material requisition and the trench material requisition (Note: Insitu Treatment Zone activities has been suspended as a result of public comments)

100-NR-1/2

M-15-12A

- Submitted LFI for new work completed on 100-NR-1 and 100-NR-2
- Comments were received from Ecology and RL on **1301-N/1325-N** LFI/QRA report



N-Deactivation

- Deactivated seven buildings during the period (19 of 19 have been completed fc FY 96)
- Completed demolition of 7 tanks (1715-I tanks 1,2,3 & 4 and 184-ND tanks 1,2 &
- Completed 21 facility turnover packages the six month performance period
- Initiated the N Area *Miscellaneous Water and Sediment Data Quality Objective Process*
- Six building turnover/closeout packages were completed
- Resolved the most significant issues raised by the Facility Representative & EH Mentors
- Submitted the *Hanford 100 N Area Traces Study Final Report,* BHI-00926 to RL

N Basin Activities

- Root cause analysis was conducted
- An off-gassing sample analysis of the grouted monoliths was performed
- Developed a detailed logic schedule for resolution of the high exposure rate hardware gassing issue
- Improved focus on the **N Basin** activities by splitting N Area Project into two separate projects
- Developed a *Corrective Action Plan* for N Basin restart

This Quarters Accomplishments (July - September 1996)

Demolition Projects

190-C Building

- Initiated water tunnel isolation activities
- Conducted a walkdown with RL and an Independent verification contractor
- Conducted readiness evaluation and finalized asbestos removal work packages
- Obtained RL concurrence that ISP will serve as Project Plan
- Sampling has been completed in the trenches. The data analysis of the samples has also been completed. The results indicate that levels of mercury in the trenches are less than regulatory action levels

187-C High Tanks

- High Tanks were demolished on July 21, 1996, recycling commenced
- Final report is being drafted & will be combined with the foundation demo report

183-C Filter Bldg/Pumphouse

- Above grade Pumphouse building demolition is complete
- All steel recycling by the subcontractor was completed
- Completed sodium dichromate concrete disposal
- Final draft report was completed and issued

190-D Demolition

- Completed and issued the *Final Report*

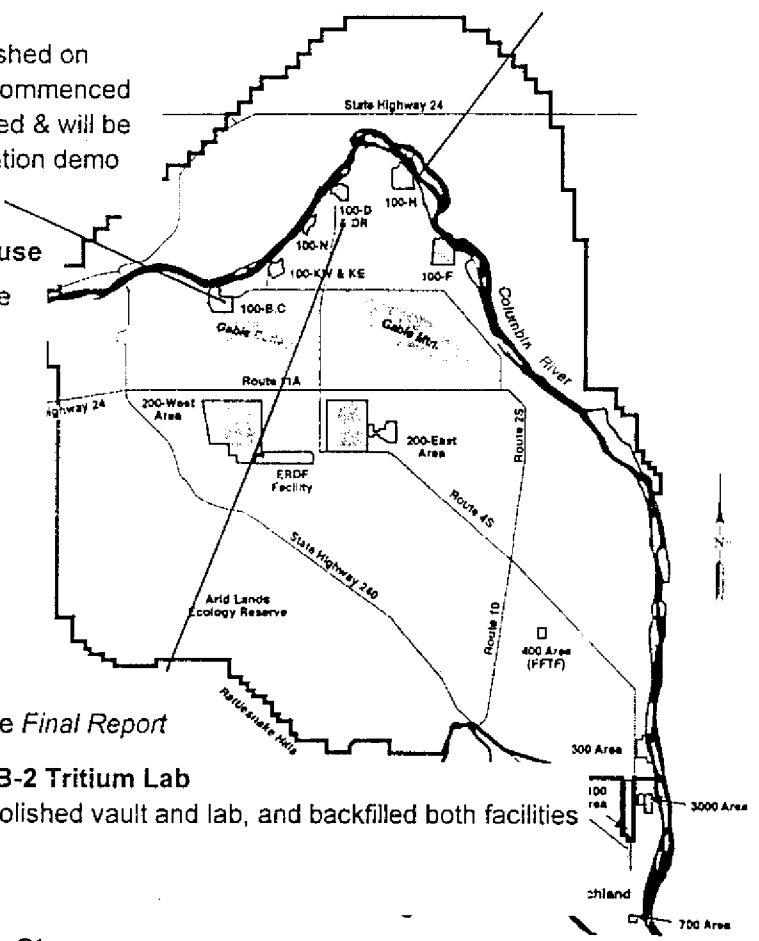
104-B-1 Tritium Vault/104-B-2 Tritium Lab

- Removed asbestos, demolished vault and lab, and backfilled both facilities to grade

RCRA Closures

183 H Solar Evaporation Basins

- The *Engineering Evaluation/Cost Analysis* (EE/CA) for disposal of Structural Concrete and Soil from the 183-H EE/CA notification was issued which commenced the 30-day public review period
- Submitted data analysis reports for concrete and contaminated soils removed from the decontamination effort for peer review



105-C Reactor Interim Safe Storage

- Reviewed and provided comments to the 90% draft of the *Definitive Design Report* (DDR) issued by the subcontractor
- Completed the decisional draft of the "*Final Hazard Classification and Auditable Safety Assessment*" and forwarded to RL for review and approval
- Participated in the subcontractor project status review meeting with the definitive design at 99% complete. Remaining work to go is to resolve and incorporate comments received on the DDR

This Quarters Accomplishments (July - September 1996)

RARA Interim Stabilization

- A subcontract was awarded for the 100-K flood plain fence. Installation was completed in August
- Development of the EE/CA regulatory documentation that will allow the disposal of scrap mental and piping form the 107-K Basin to ERDF site continues
- Received the approved Business Quality Improvement Team (BQIT) Cost Saving Package for the outdoor RARA sites. The total savings for the 12 month period was $311K

RARA Surveillance and Inspections

- Fourth quarter radiological surveillance activities were completed on all outdoor stabilized sites
- The Selective Herbicide Application Program to prevent deep-rooted vegetation growth on the stabilized outdoor sites was ongoing. The effectiveness of the herbicide applications program during the wettest year on record has been exemplary. This was accomplished through improved management and technical expertise in selection of the best herbicide for application during the weed growth season

Asbestos Conversion Unit

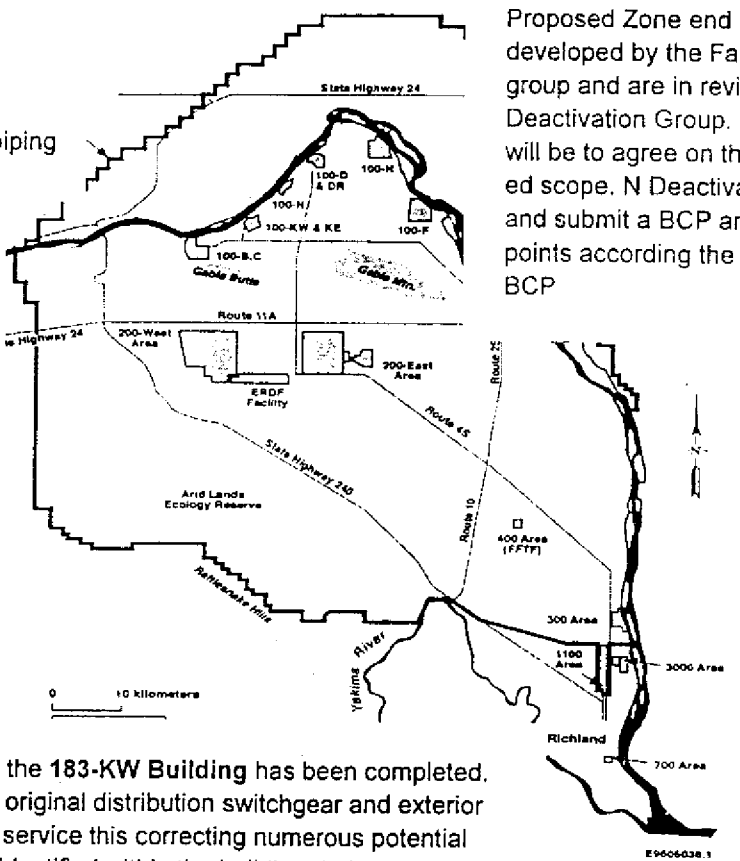
- 264 cubic yds. were processed to
- Waste hauling contract was established for excess conversion wastes
- 360 cubic yds. of excessive waste was transported to landfill

Facility Transition

- Verified approx. 250 end points in support of the **PUREX** ancillary bldg. WHC milestone
- **PUREX** end point verification is 38% complete. The 308 bldg is physically ready for transfer to EM-40, and the Final Hazards Classification was prepared for submittal to RL in early October
- Toured Zone 1 of the 105-N Bldg. Proposed Zone end points were developed by the Facility Transition group and are in review by the N Deactivation Group. The path forward will be to agree on the Zone 1 anticipat ed scope. N Deactivation will prepare and submit a BCP and adjust the end points according the RMT action on th BCP

Asbestos Abatement

- 109-N steam assembly piping was completed
- Completed 211-S and REDOX ancillary bldgs
- Completed plans for 105-C ISS, 1714-C, 103-B, 1701-BA, (1614-W-2, 1614-W-4, 1614-W-5, and 1614-E-2, work for others)



Inactive Facilities S&M

- The electrical upgrade to the **183-KW Building** has been completed. This effort eliminated the original distribution switchgear and exterior power transformers from service this correcting numerous potential electrical shock hazards identified within the building during the risk assessment evaluation
- Repackaging and disposal of the legacy waste materials from the Radiation Boundary Areas (RBA) in the **105-B/C/D/DR/F and H** reactor
- Completed the first of six training sessions being conducted by the **PUREX** staff in preparation for the facility to be transitioned to ERC in July 1997
- Continued remote monitoring installation in **REDOX (202-S)** and **U Plant Bldgs.**
- The DQO Summary for the 233-S Non-Process Areas was approved and issued

This Quarters Accomplishments (July - September 1996)

Technology Applications

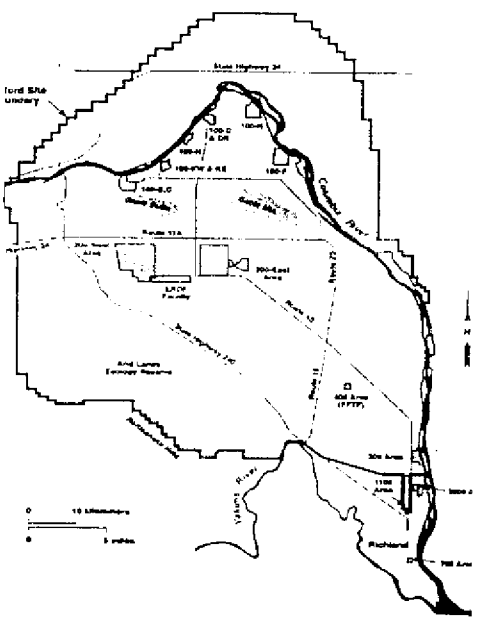
- A subsurface survey system that used high voltage electromagnetic waves to map the subsurface was identified and evaluated
- A Technology that uses freeze thaw cycles for in-situ extraction of contaminants was identified and evaluated
- A solid state sensor system technology for remote monitoring of radiation in soils was identified and evaluated
- The *Canyon Facility Characterization Proposal* was transmitted to the decontamination and decommissioning focus area
- Completed 22 technologies evaluations to address access, removal, immobilization, containment, and exsitu treatment for deep soil uranium contamination

Automation Technology

- Critical areas of *DARTS* (Document Center's profile database) was completed
- Installed new version of the search engine in the *Electronic Document Management System* (EDMS)
- Implemented changes in the system to support the new *Code of Accounts* (COA)
- Performed financial closings with Controller organization completing all necessary reports and rollups

Environmental Technologies

- *Natural Resources & Risk Assessment*
  - Provided technical support to DOE on Columbia River Comprehensive Impact Assessment
  - Reviewed draft Restoration/Revegetation Manual
- *Site Investigations*
  - Issued Hanford Soil Background Report
  - Awarded subcontract for Data Quality Objective (DQO) facilitation and team building
- *Sample & Data Management*
  - Completed Specific Waste Management Instructions for field screening
  - Completed self-assessing on field screening (onsite measurements)
  - Integration of the ***Hanford Geographic Information System*** (HGIS) and the ***Waste Information Data System*** (WIDS) was completed



Safety and Health (S&H)

- Volunteer HAMTC employees developed site visit checklists/survey forms
- Final *Fire Hazards Analysis* for 200-ZP-1 was released (new facility)
- The high capacity breathing air system was received on site and is being used at the 100-N area with reported success

Project Services

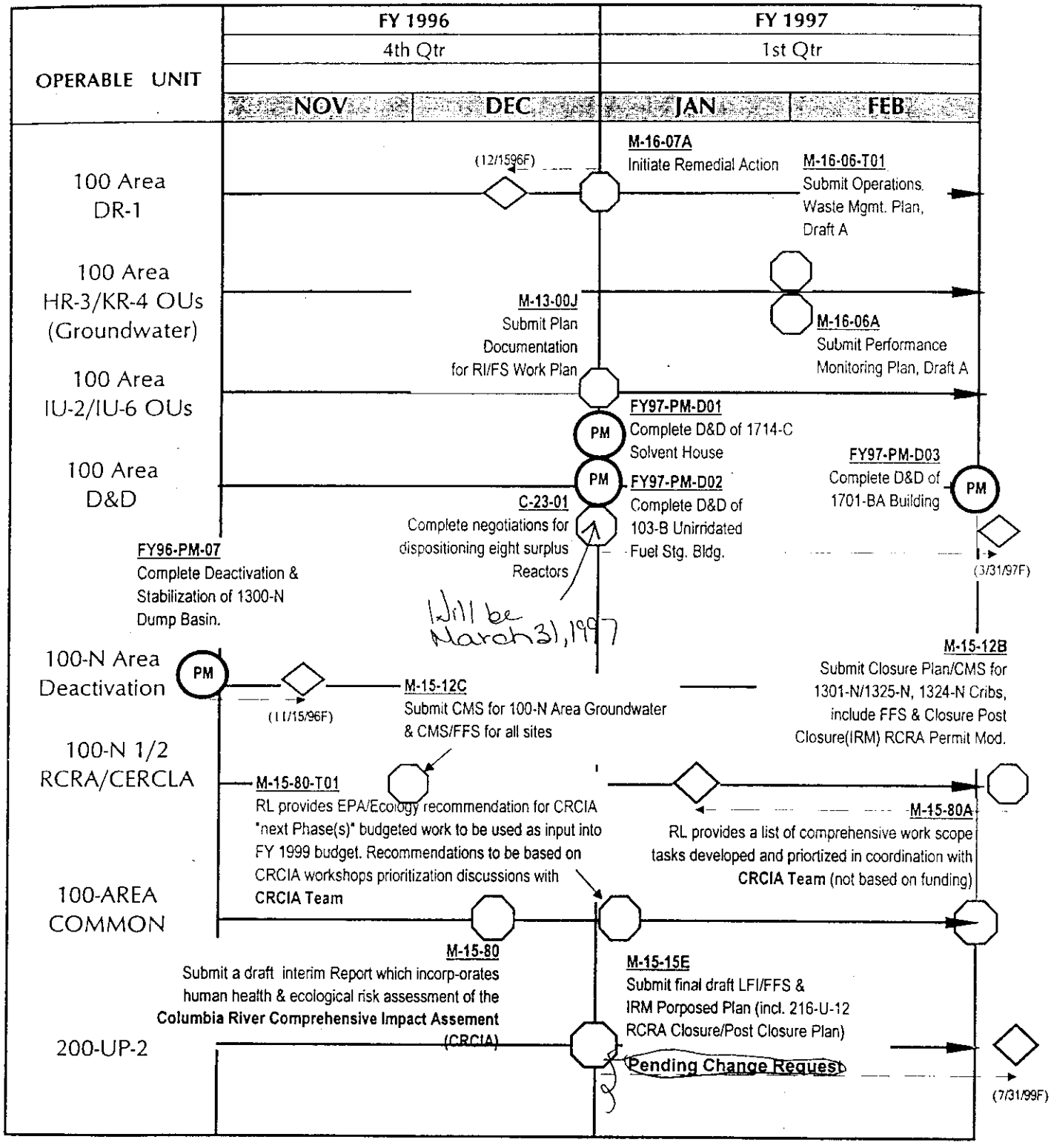
- Procurement

- *Small Business*--The fiscal year to date contractually required socio-economic goals are as follows:
  - Total Small Business Goal 50%/FY Actual 82.6%
  - Women Owned Goal 3.5%/FY Actual 12.9%
  - Small Disadvantaged Business Goal 6.5%/FY Actual 12.2%

- Property Management

- The analysis of the *Property Management Value Based Self Assessment* (VBSA) questionnaire was completed and the data collection files to track various transactions for VBSA was established

Milestones - 120 Day Lookahead
(Nov 1996 - Feb 1997)



Legend:

- TPA Milestones
- Forecast
- PM — HQ Performance Measures

Issues

Issue	Impact	Corrective Actions
♦ **Waste Disposal** - need a decision document to cover non-CERCLA waste disposal at ERDF	♦ Continued waste management, monitoring and support.	♦ A strategy was developed in June to obtain relief through a Regulatory determination for on-site disposal.
♦ **N-Basin** Work suspensions, in response to interpretive issues regarding the implementation of DOE Nuclear Safety Orders, RL temporarily suspended work activities at the 100-N Basin and REDOX facilities. The suspension took effect on May 3, 1996. ♦ BHI issued a temporary stand-down at 100 N-Basin due to specific RADCON concerns.	♦ Potential delay of water to ETF/LERF. ♦ Potential impact on Estimate at Completion (EAC). ♦ Target TPA milestone **M-16-01E-T3** due date of April 30, 1996. ♦ Potential delay of N-Basin deactivation completion per TPA Interim Milestone **M-16-01E** due date of September 30, 1997. This milestone is not supported by the current schedule. RL-ER is committed to making changes so the milestone will be met.	♦ A review of hazard analysis documentation is in progress. ERC, RL and HQ personnel are working to resolve issues by clarifying the hazard categorization requirements. This review was completed for the non-intrusive remote monitoring installation at REDOX, and the work was restarted. Once resolution is reached for the N Basin Activities, work will be initiated based on DOE and ERC approvals. The Regulators have been briefed on the recovery plans for completing N Basin cleanout ♦ ERC personnel completed critiques and a root cause analysis on the corrective action plan, and are working to complete and verify the corrective actions. ♦ Both issues are being worked as part of an integrated recovery plan.

Issues

Issue	Impact	Corrective Actions
♦ The current funding level in 200 Area source remediation does not support TPA Milestones	♦ To be determined	♦ ERC and RL management are working with Regulators to establish an implementation strategy, and redefine TPA milestones based on the implementation plan.
200-UP-2 RCRA/CERCLA Integration • A stand-alone Closure/ Postclosure Plan for 216-U-12 is required • EPA CERCLA position that Proposed Plans and Interim RODS for continued S&M will not be issued • Additional data (in addition to LFI data already generated) is needed to satisfy site-specific data requirements for the Hanford Site Wide Permit Modification. • The Permit Modification schedule for TSD inclusion is not currently flexible to allow changes • Programmatic interfaces could impact the schedule of characterization and remediation	♦ To be determined	• Comply with current Regulator expectations to develop a stand-alone Closure/ Postclosure Plan for 216-U-12 is required ($110K) • Attempt to resolve TSD integration through TPA Change Package development addressing 200 Areas Strategy • Senior "Brown Bag" discussions with Regulators are needed to improve integration commitment. • Resolution of programmatic interface problems are addressed in the 200 Areas Strategy (Rev. 0).

Issues

Issue	Impact	Corrective Actions
♦ The review period for the **200-UP-2 Focused Feasibility Study** has been extended by **Ecology.**	♦ TPA milestone ~~M-15-15E~~ (1997 Permit Mod) for the 216-U-12 ~~Crib~~., due date of ~~12/31~~/96. Change Request Signed	♦ A letter drafted by Ecology recommends the extension of this TPA Milestones due date to 7/31/99.
♦ Operation of **200-ZP-1** pump and treat system.	♦ TSD monitoring of the low level burial grounds.	♦ RL is reviewing the issue at this time.
♦ **233-S Decommissioning Project** due to the approval cycle of the EE/CA, the addition of grouting as an alternative and the increased scope of the Remedial Design Report (RDR) and other obligations as a result of the pilot project.	♦ the anticipated start date for field work is August 1997.	♦ A cost impact and revised integrated schedules are being prepared due to increased duration of support and planning activities.
♦ Facility transition of **PUREX** Deactivation Project have targeted May 15, 1997 as the transition date for the complex ♦ Total authorization for S&M, tunnel transfer, scope of waste sites transition ♦ Necessary and Sufficient Process	♦ The effort to begin the Necessary and Sufficient Process for **PUREX** will present challenges in resources (dollars and technical support). ♦ Decisions are needed in the very near term to meet this aggressive schedule.	♦ Ways to reduce costs and schedules are being evaluated.
♦ FY 1997 funding shortfall of $13.0 million	♦ Approximately $7.0 million of work scope planned for FY 1997 will be needed to be rescheduled and/or deferred to FY 1998 or beyond	♦ Alternatives to offset the $13.0 million funding shortfall have been prepared and discussed with the Regulators at two meetings, including the year end review. The ERC has accepted a $4.0 million productivity challenge, reduced the contingency for distributable costs by $2.0 million and identified $1.0 million reduction in Program Management & Support services. Alternatives for workscope deferrals will be discussed at the TPA Quarterly/IAMIT, on 11/26/97, as a special topic.

Work Breakdown Structure

(For Performance Graphs)

Remedial Actions

ADS - 3100	100 - DR Operable Unit
ADS - 3105	100 - BC Operable Unit
ADS - 3110	100 - KR Operable Unit
ADS - 3115	100 - FR Operable Unit
ADS - 3120	100 - HR Operable Unit
ADS - 3200	200 - BP Operable Unit
ADS - 3230	200 - UP Operable Unit
ADS - 3300	300 - FF Operable Unit
ADS - 3390	1100 - EM Operable Unit

Ground Water Management

ADS - 3105	100 - BC Operable Unit
ADS - 3110	100 - KR Operable Unit
ADS - 3115	100 - FR Operable Unit
ADS - 3120	100 - HR Operable Unit
ADS - 3200	200 - BP Operable Unit
ADS - 3210	200 - PO Operable Unit
ADS - 3230	200 - UP Operable Unit
ADS - 3235	200 - ZP Operable Unit

Disposal Facilities

ADS - 3700	Disposal Facilities

N-Area Deactivation

ADS - 3600	N - Reactor
ADS - 3125	100 - NR Operable Unit

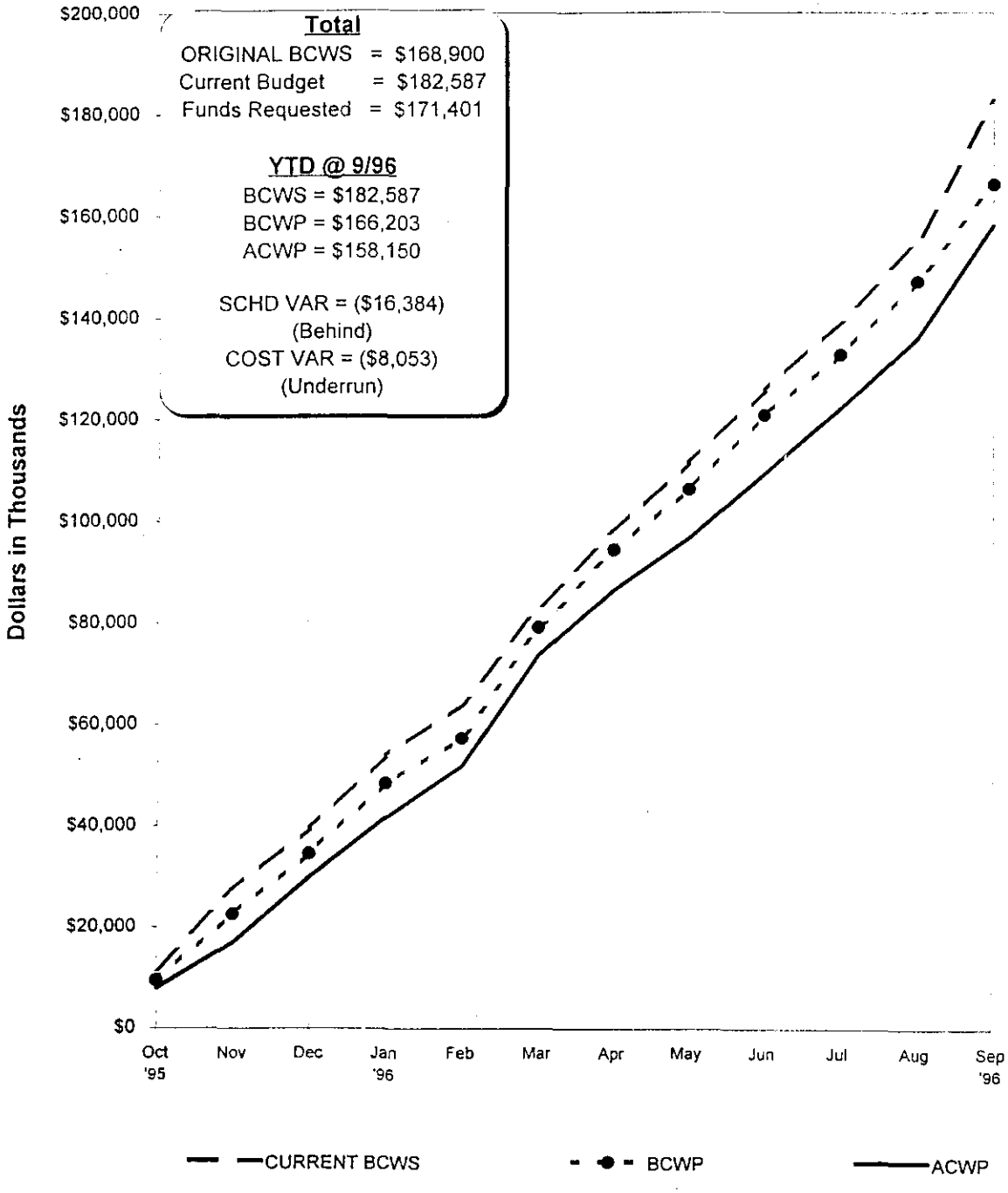
D & D

ADS - 3010	RARA / USTs
ADS - 3020	RCRA Closures
ADS - 3500	Asbestos Abatement
ADS - 3510	100 Area D&D
ADS - 3520	200 Area D&D
ADS - 3800	Long Term S&M

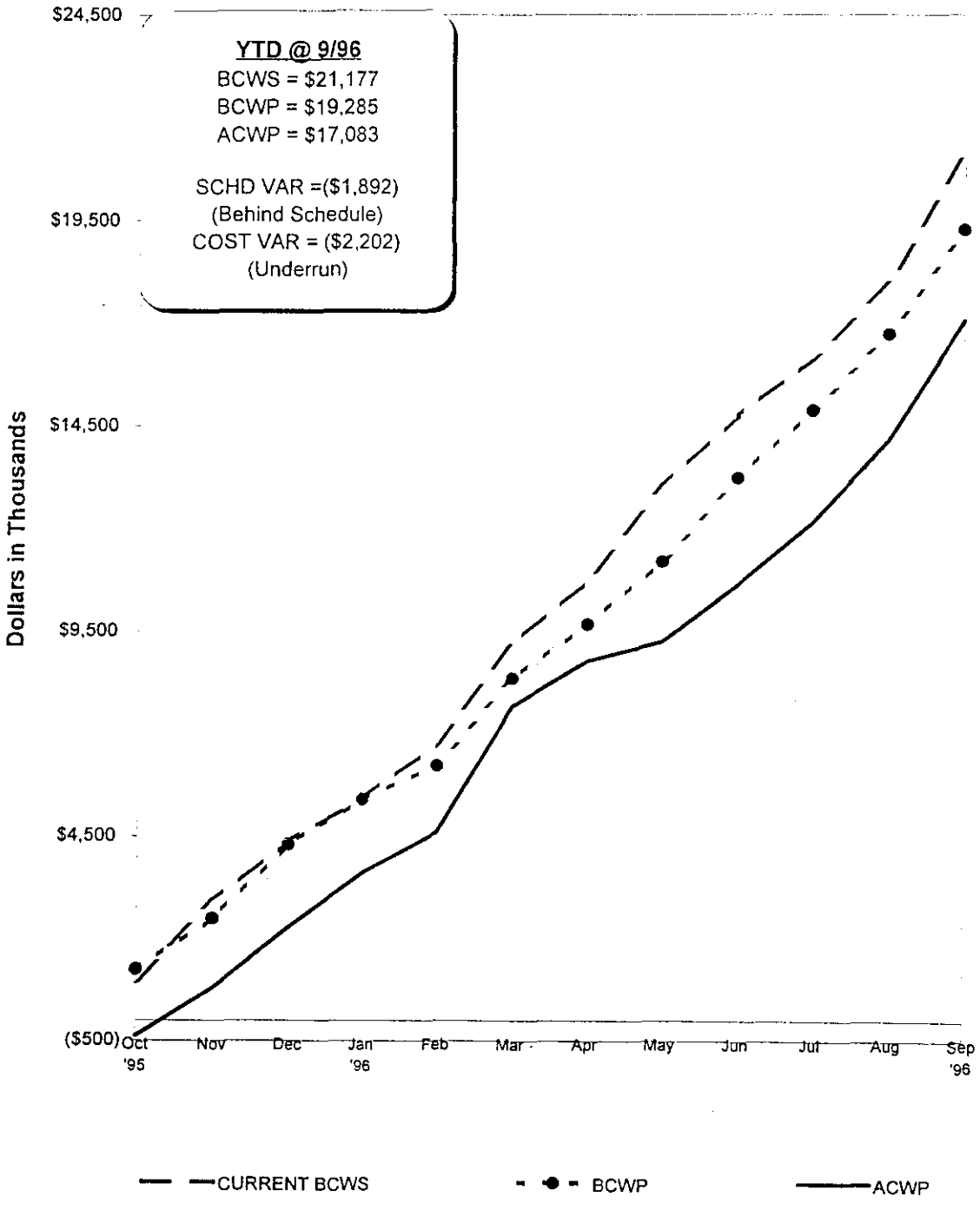
Support Projects

ADS - 3400	Program Support - BHI
ADS - 3410	Program Support - RL, USACE, PNL

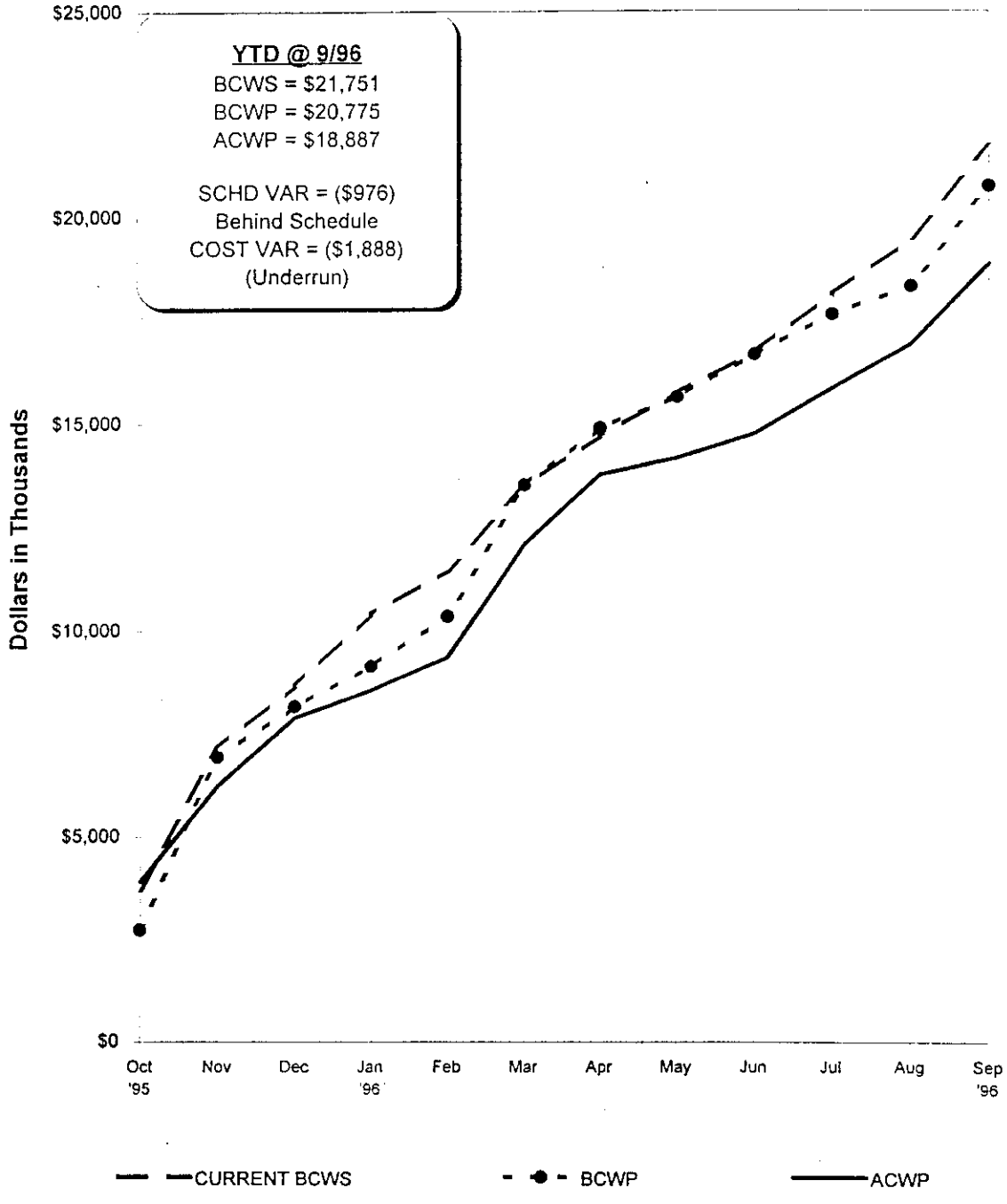
FY 1996 Total ER Performance Summary



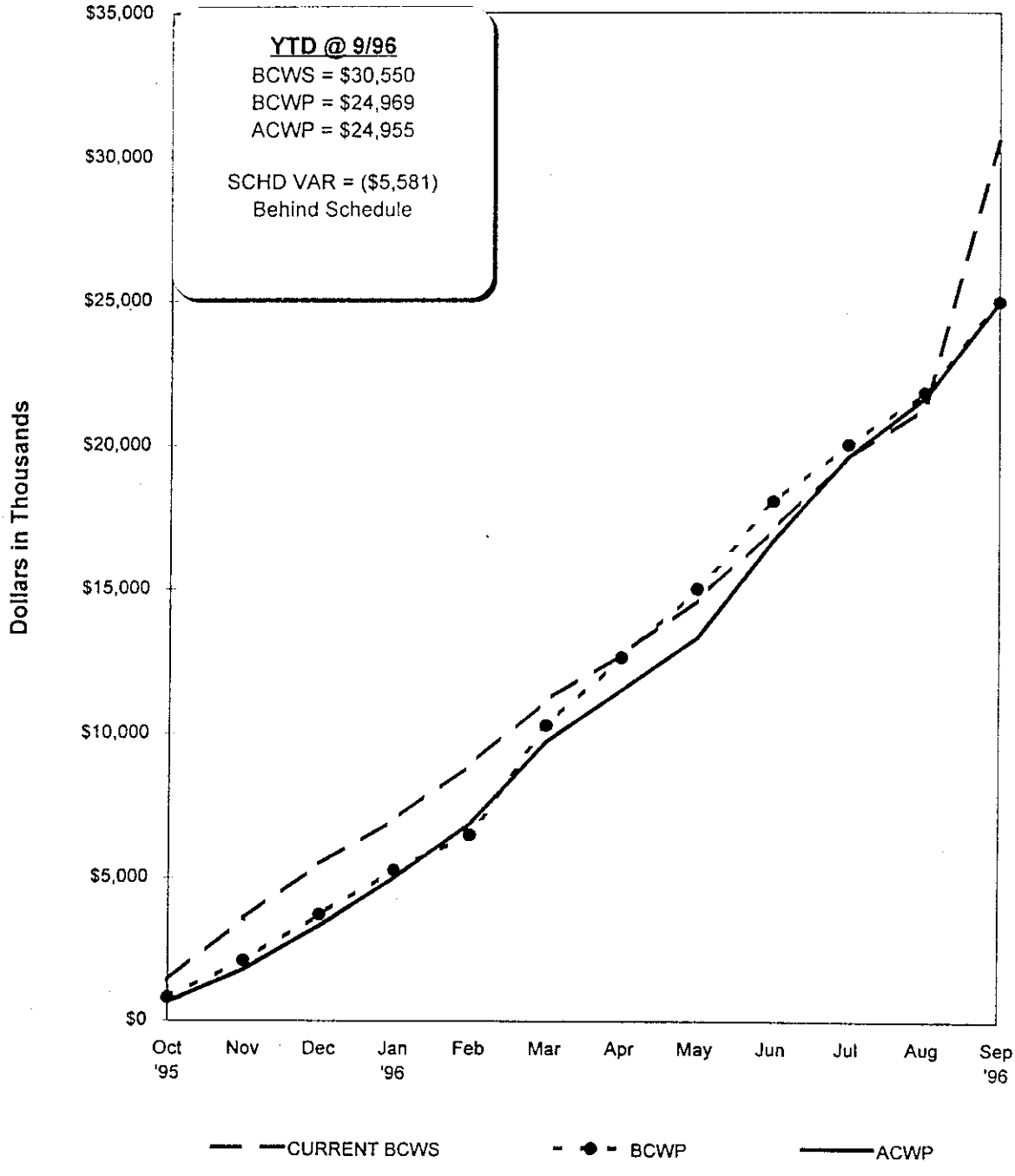
FY 1996 Remedial Actions Performance



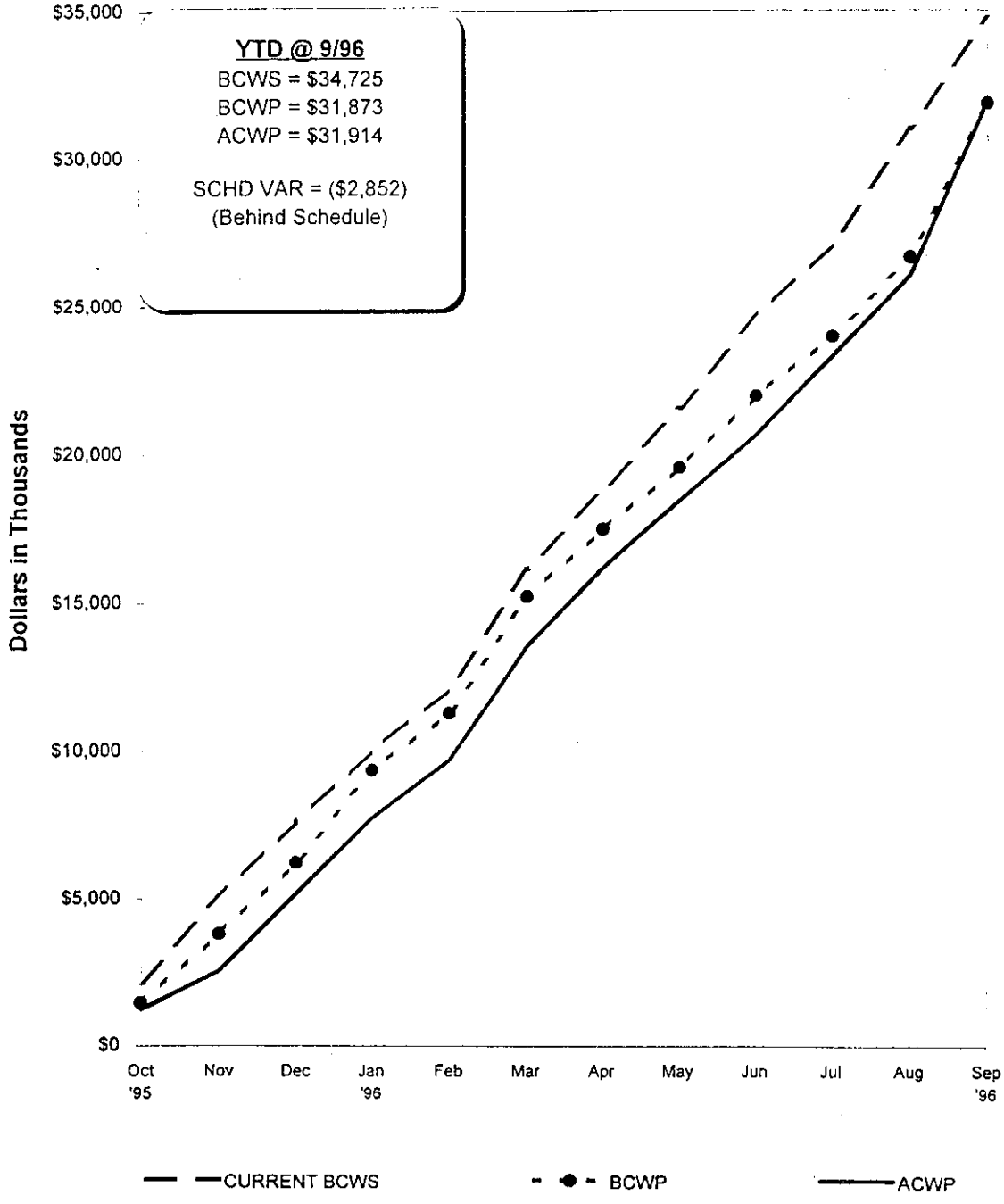
FY 1996 ERDF Performance



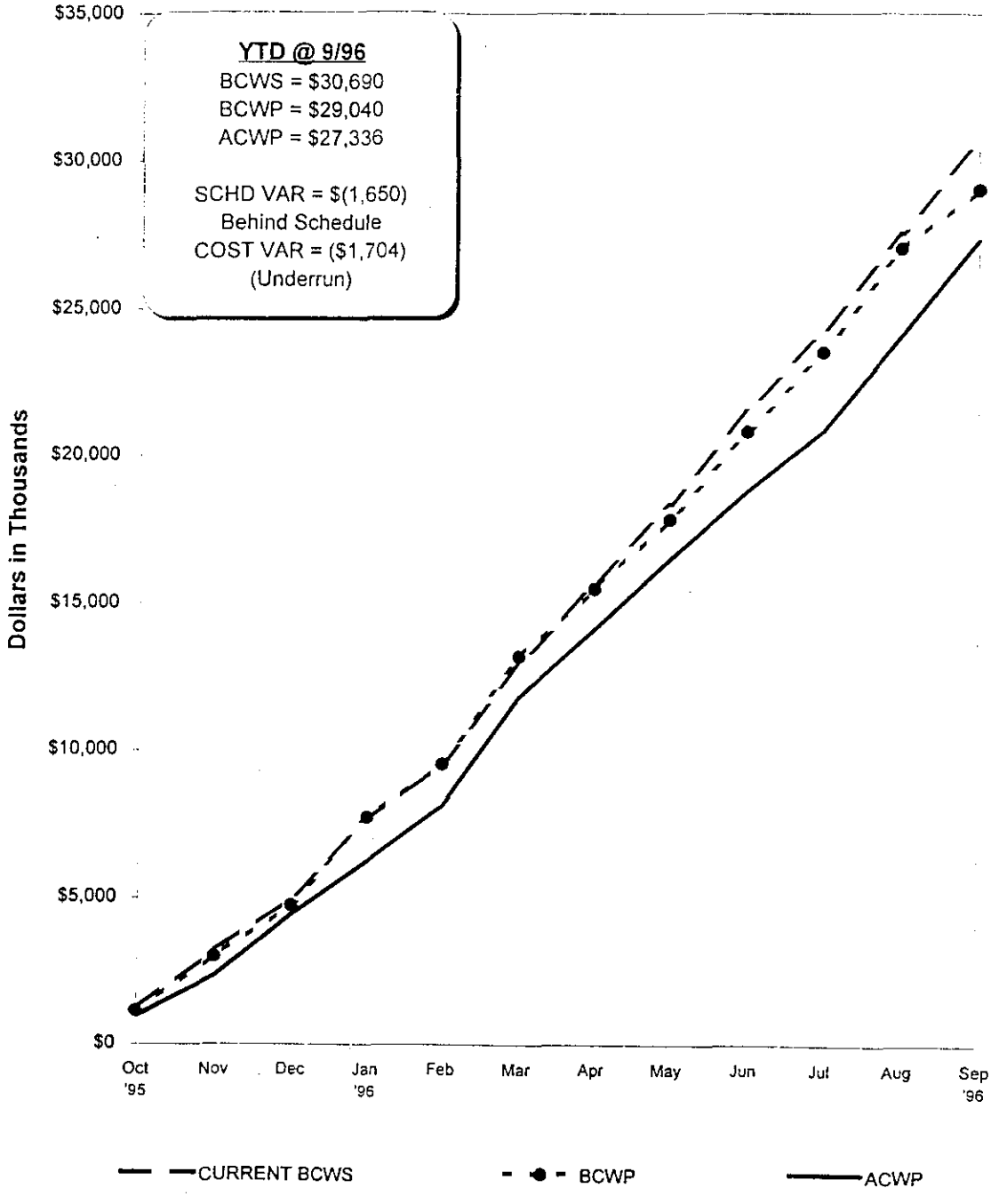
FY 1996 Groundwater Management



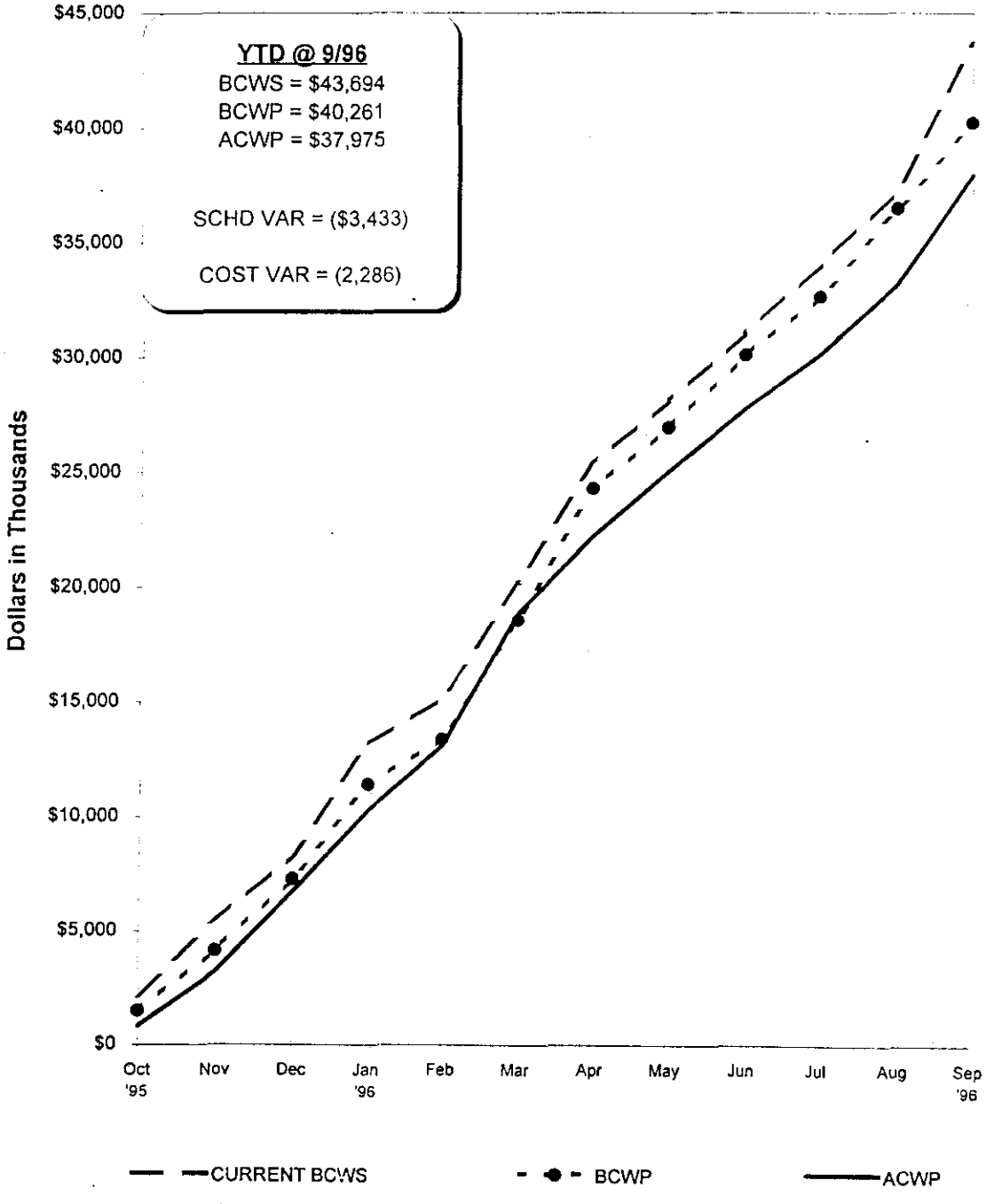
FY 1996 N - Area Project Performance



FY 1996 D & D Performance



FY 1996 PM&S Performance



FY 1996 - Schedule / Cost Variance Summary

Schedule Variances (>$350 thousand @ ADS Level):

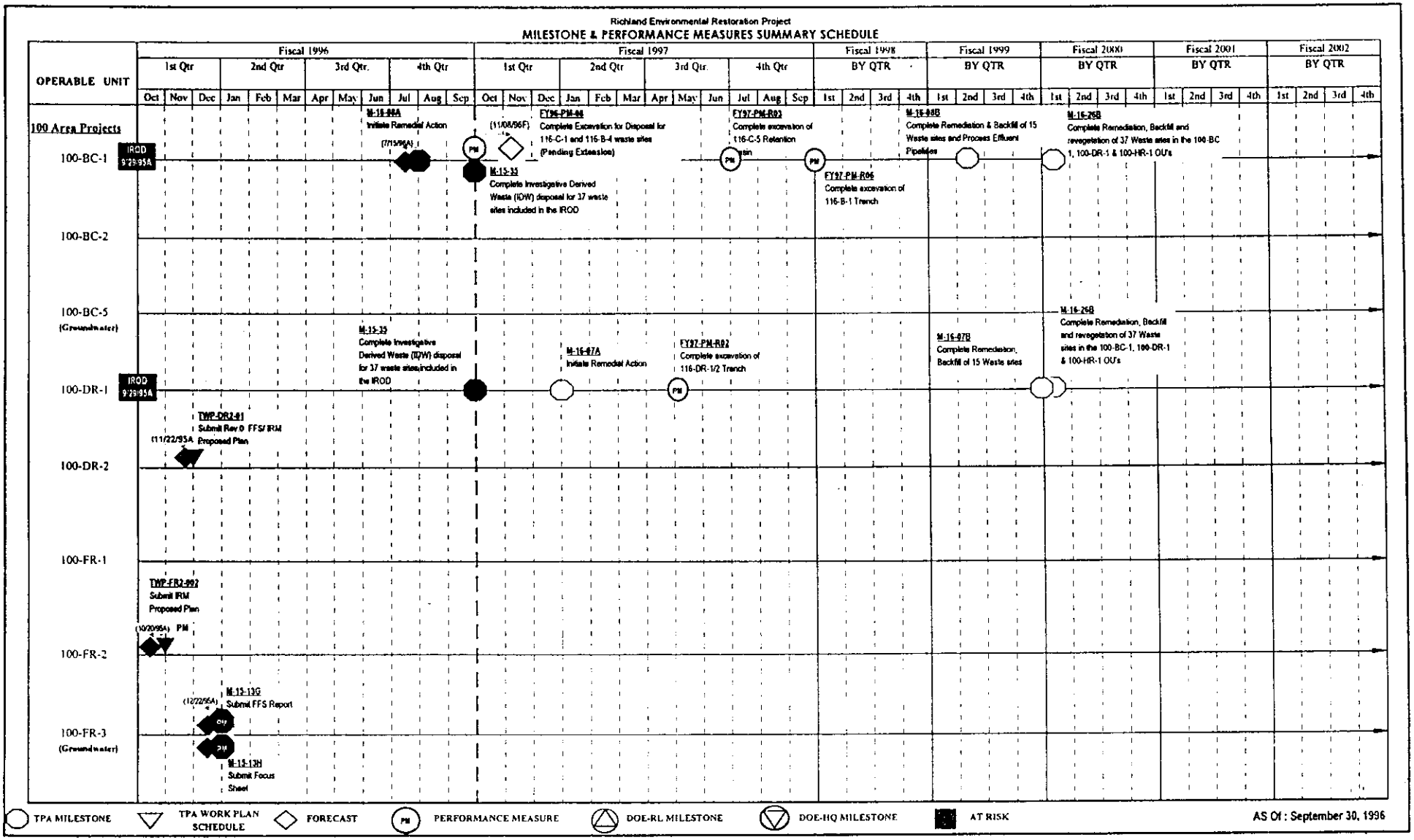
Operable Unit / $ Variance (000's)	Description & Cause
ADS 3105 100-B/C	♦ Excavation of the 116-C-1 trench is behind schedule due to additional scope quantities and the 116-C-5 retention basin and the pipelines started late - ($635K) behind schedule.
ADS 3115 100-FR	♦ USACE-North Slope-Carryover for invoices that were not submitted for payment prior to close of FY95 -($555K) Behind Schedule.
ADS 3110 100-KR	♦ **IRM** implementation well drilling activities were delayed to support SX Tank drilling operations. - ($367K) behind schedule. ♦ **Capital Construction** - Capital equipment contracts for BOP/Skid awarded. Construction activities planned for FY97. Coordination with Group 2 resulted in delays in the power to the site for construction completion. -($1,639) behind schedule.
ADS 3120 100-HR	♦ **Capital Construction** - Capital equipment contracts for BOP/Skid awarded. Construction activities planned for FY97. Coordination with Group 2 resulted in delays in the power to the site for construction completion. -($2,059) behind schedule.
ADS 3125 100-NR-2	♦ Schedule delays are the result of the DQO workshop causing redirection and design changes. The project has been on hold - ($938K) behind schedule.
ADS 3235 200-ZP	♦ **Capital Construction** 200-ZP-1 for Phase III piping contract was awarded in September. Mobilization is planned for November - ($933K) behind schedule.
ADS 3510 100 AREA D&D	♦ **190-C/105-C Demolition** - RL funding constraints has delayed start causing negative variance. 187-C High Tanks were delayed in completing project report and removal of tank foundations - ($988K) behind schedule.
ADS 3520 200 Area D&D	♦ **200 Area IFS&M** - Contract award of remote monitoring installation was delayed due to the **202-S** suspected of a flange leak caused a delay to the cleanout preparation and start of installation, - ($535K) behind schedule.
ADS 3400 Program Mgmt & Support	♦ Phase III of restructuring has not been implemented pending final determination of FY96 budget reductions, -($383K) behind schedule ♦ **GIS** mapping and WIDS data package cleanup are behind schedule due to late issuance of the subcontracts for these efforts - ($865K) behind schedule.
ADS 3600 100-N Reactor	♦ **N-Basin** cleanout **work suspension** due to Hazard Classification analysis. Both ROSEE and high dose removals are on the critical path for N Area - ($1,041K) behind schedule. ♦ **Emergency Dump Basin** took extra time to set up dewatering equipment and removal of remaining water, sediment, cattails and sparger - ($372K) behind schedule.
ADS 3700 ERDF	♦ The waste volume disposal to **ERDF** was less than originally planned. Road paving efforts were delayed to FY 1997 - ($976K) behind schedule.

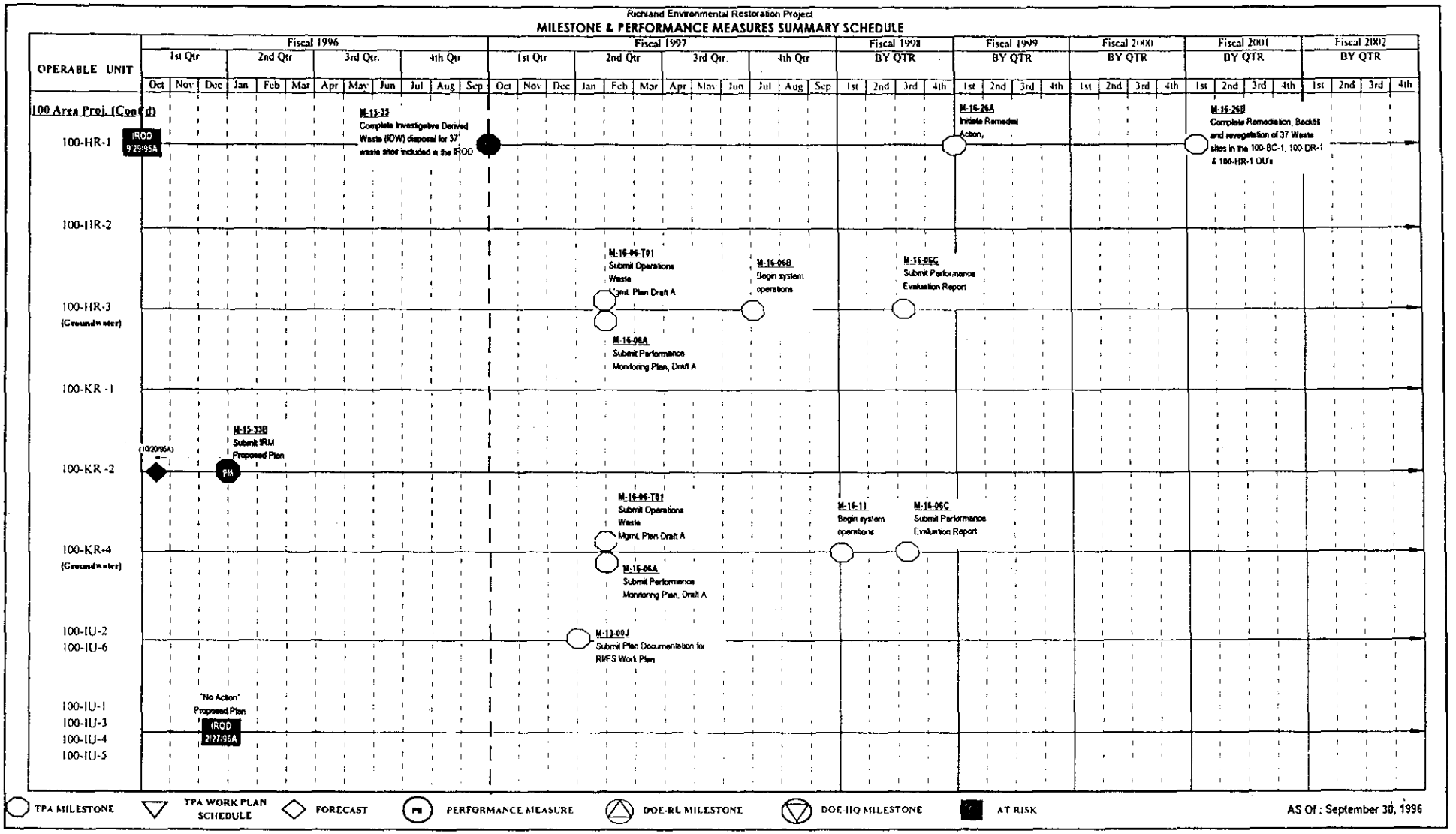
Cost Variances (>$350 thousand @ ADS level)

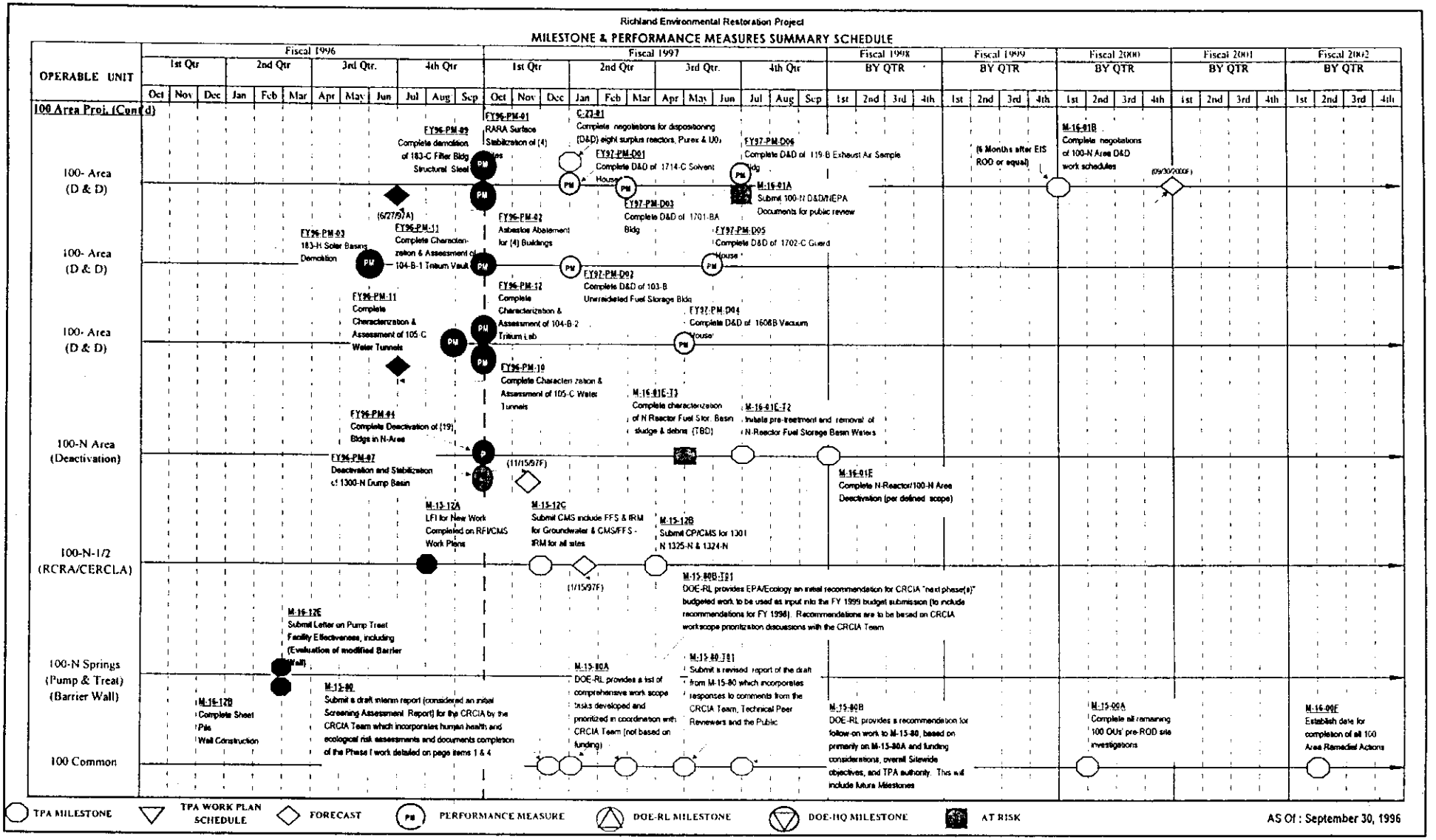
Operable Unit / $ Variance (000's)	Description & Cause
ADS 3010 RARA -UST	♦ **Internal Stabilization** 1.) Effective management controls (Site inspector and close monitoring of charging practices. 2.) Ash pit 126-F-1 minimal contamination - ($1,136K) cost underrun.
ADS 3105 100-B/C	♦ (1) The **Rock-Screening Treatibility Test** effort was less than originally planned; (2) Cost efficiencies in B/C demo from bulk storage of soil and reduction of samples required in sampling strategy; (3) Change in directions has occurred since the initiation of Group 1 Design, which continues to impact the **RDR, RAWP, SAP, RCMS** and associated procedures; (4) Remediation equipment costs have been less than planned, +$312K overrun.
ADS 3125 100-NR 1/2	♦ Productivity for crib characterization drilling activities substantially increased costs savings, -(1,414K) cost underrun. ♦ Rigid operational and functional requirements as well as design problems associated with operational shakedown, +$433K cost overrun. ♦ Scope growth in **ISTZ** design, and extensive reviews on the **TTP** with cost overruns in the CMS are due to additional land use scenario and increased Regulator interface. +$1,103K cost overrun.
ADS 3230 200-UP-1	♦ Characterization costs was lower than anticipated for preparation of the **LFI Risk Assessment Plan** and processing the 3rd round of LFI GW sampling. (2) IRM implementation performance monitoring activities being completed below budget, -($465) cost underrun.
ADS 3235 200-ZP-1	♦ **IRM** implementation due to labor associated with the replacement well, design engineering to support Phase II, field supervision of construction activities, and procurement activities associated with the Phase II pump and treatment system and operational costs of the treatment system are higher than originally planned - ($781K) cost overrun.
ADS 3300 300-FF	♦ 300-FF-1 Remedial Design cost savings due to an award that was less than budgeted, -($963) cost underrun.

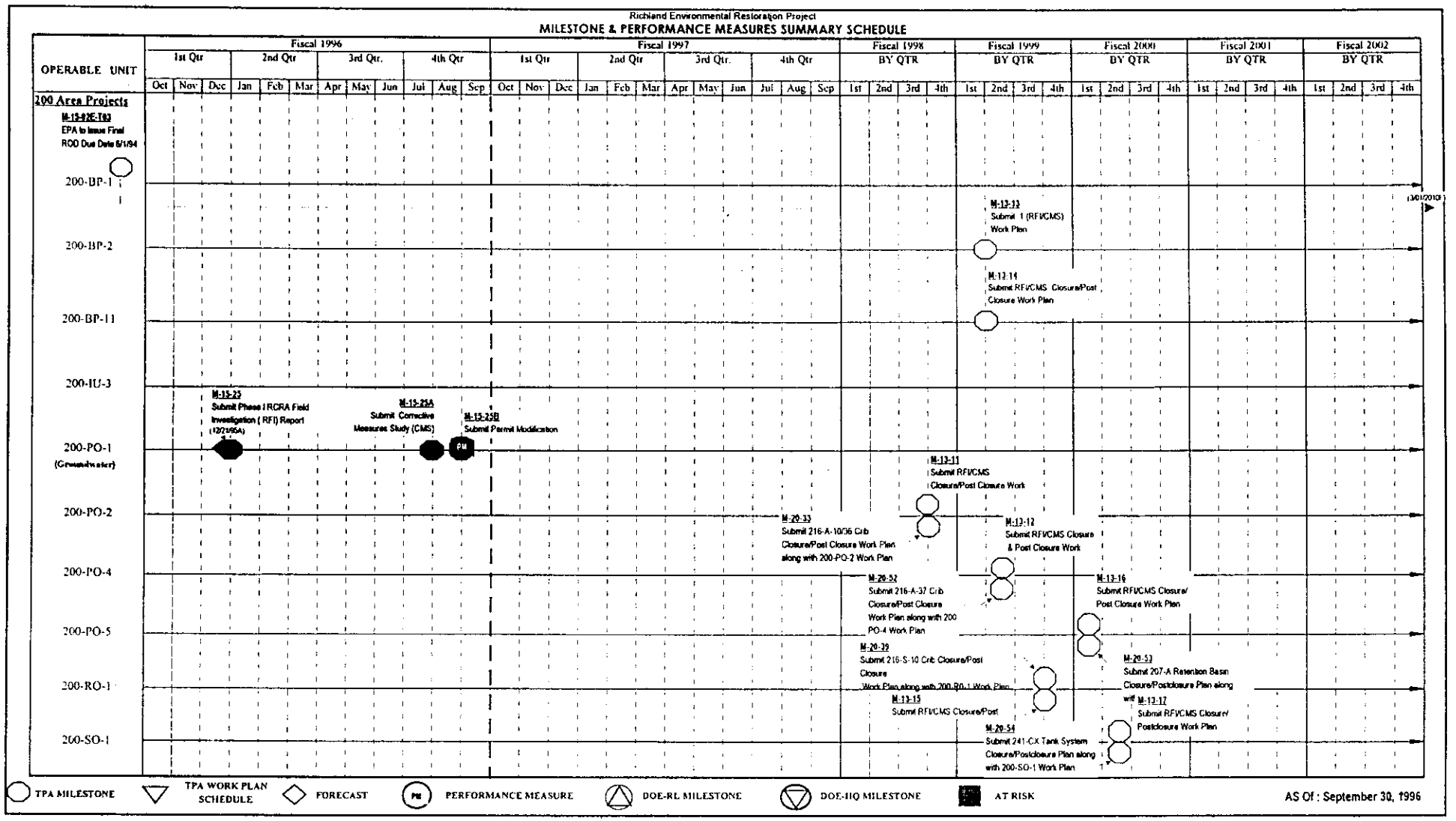
Cost Variances (>$350 thousand @ ADS level)

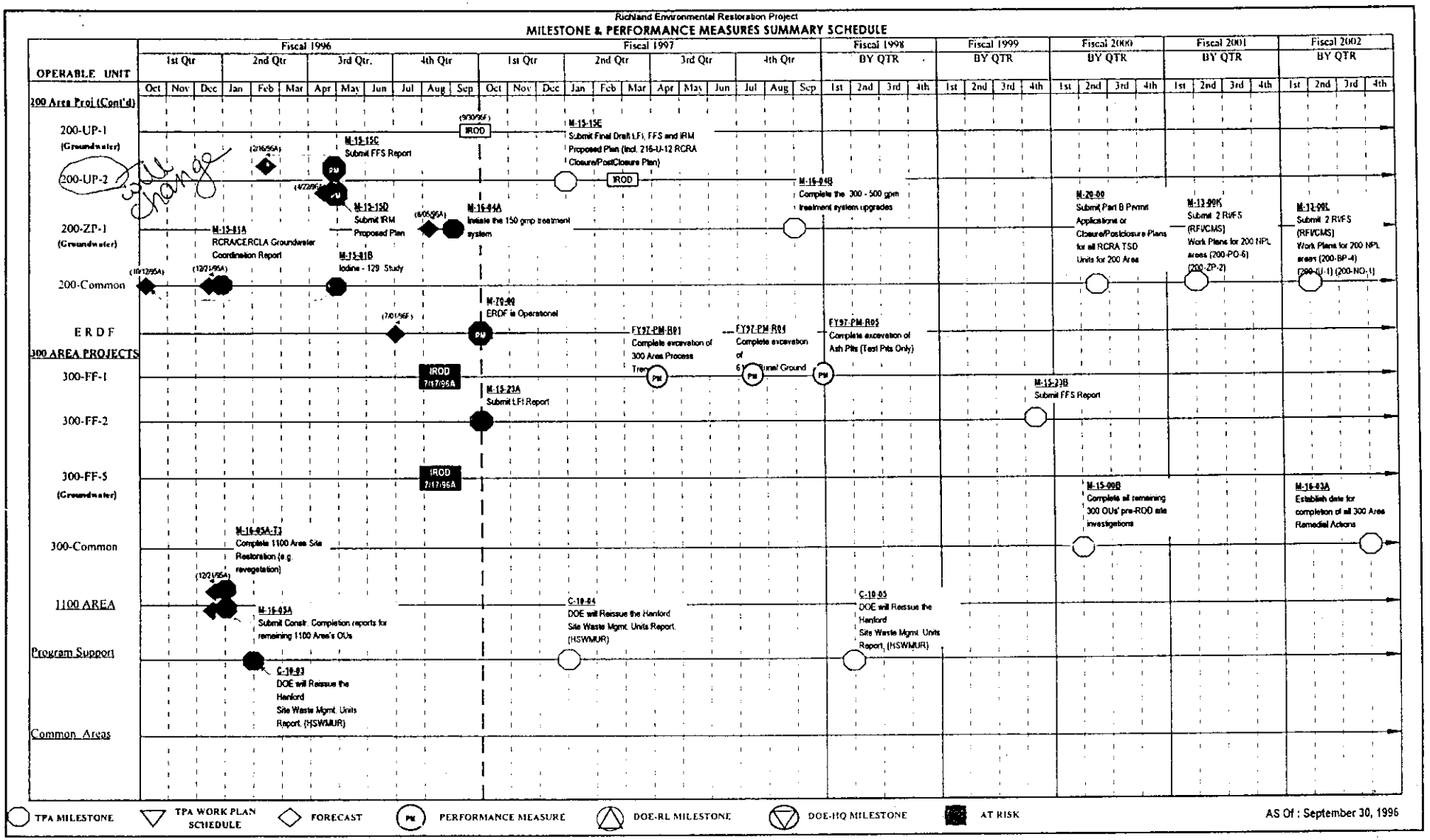
Operable Unit / $ Variance (000's)	Description & Cause
ADS 3390 1100 EM (USACE)	♦ Efficiencies in the contracting process and the performance in the field will result in net savings to the project. U.S. Army Corps of Engineers (USACE) credit of -($668) cost underrun.
ADS 3400 PM&S	♦ **AT Support** - Less software support required from PNNL. 2) HEIS data entry is being done more efficiently, requiring less manpower. 3) Redesigned GIS & WID databases have resulted in more efficient data entry, information retrieval, map production for field use, and maintenance. ♦ **Project Services** Records & Document Control - 1) EDMS costs incorrectly coded to Regulatory Support during April; 2) staff less than planned; 3) Library subscription billings later than anticipated; 4) costs for WHC services are less than planned. Total Cost underrun of -($2,286K).
ADS 3510 100 Area D&D	♦ **183-C Demolition** - Developed efficient removal techniques of transite panels and use of portable scaffolding vs rolling roof scaffolding. ♦ **D&D Engineering** - project controls support less than budgeted and CERCLA integration effort required less time than budgeted. ♦ 104-B-2 Tritium Lab Assessment costs for sampling were less than anticipated. ♦ 104-B-2 Tritium Vault Remediation costs were lass than identified in the model estimate. ♦ 104-B-2 Tritium Lab Remediation costs were less than identified in the model estimate. ♦ **187-C High Tanks** actual costs were less than budgeted. Total cost underrun of -($492K).
ADS 3600 100-N Deactivation	♦ Extreme weather, suspension of Basin operations caused excess overtime for schedule recovery + $2,589 cost overrun. ♦ A double booking of an accrual in FY 1995 was reversed in November Actuals caused a -($472K) cost underrun. ♦ Performed work with less staff than planned -($2,223) cost underrun. ♦ **Emergency Dump Basin** dewatering equipment was more time comsuming than expected. Sediment removal required extended effort +$319 cost overrun.
ADS 3700 ERDF	♦ Labor underruns were experienced in technical and administrative areas. ♦ Well drilling and sampling costs are less than budgeted reflecting a lower number of wells and reduced sampling requirements., ♦ Facility construction was less than budget -($1,888K) cost underrun.


Richland Environmental Restoration Project
MILESTONE & PERFORMANCE MEASURES SUMMARY SCHEDULE
OPERABLE UNIT
Fiscal 1996
Fiscal 1997
Fiscal 1998
Fiscal 1999
Fiscal 2000
Fiscal 2001
Fiscal 2002
1st Qtr
2nd Qtr
3rd Qtr.
4th Qtr
BY QTR
Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep
1st 2nd 3rd 4th
100 Area Projects
100-BC-1
IROD 9/29/95A
M-16-06A
Initiate Remedial Action
(7/15/96A)
(11/08/96F)
FY96-PM-06
Complete Excavation for Disposal for 116-C-1 and 116-B-4 waste sites (Pending Extension)
M-15-35
Complete Investigative Derived Waste (IDW) disposal for 37 waste sites included in the IROD
FY97-PM-R03
Complete excavation of 116-C-5 Retention Basin
FY97-PM-R04
Complete excavation of 116-B-1 Trench
M-16-06B
Complete Remediation & Backfill of 15 Waste sites and Process Effluent Pipelines
M-16-26B
Complete Remediation, Backfill and revegetation of 37 Waste sites in the 100-BC 1, 100-DR-1 & 100-HR-1 OU's
100-BC-2
100-BC-5
(Groundwater)
M-15-35
Complete Investigative Derived Waste (IDW) disposal for 37 waste sites included in the IROD
M-16-07A
Initiate Remedial Action
FY97-PM-R02
Complete excavation of 116-DR-1/2 Trench
M-16-07B
Complete Remediation, Backfill of 15 Waste sites
M-16-26B
Complete Remediation, Backfill and revegetation of 37 Waste sites in the 100-BC-1, 100-DR-1 & 100-HR-1 OU's
100-DR-1
IROD 9/29/95A
TWP-DR2-01
Submit Rev 0 FFS/ IRM Proposed Plan
(11/22/95A)
100-DR-2
100-FR-1
TWP-FR2-002
Submit IRM Proposed Plan
(10/20/95A)
PM
100-FR-2
M-15-13G
Submit FFS Report
(12/22/95A)
100-FR-3
(Groundwater)
M-15-13H
Submit Focus Sheet
TPA MILESTONE
TPA WORK PLAN SCHEDULE
FORECAST
PERFORMANCE MEASURE
DOE-RL MILESTONE
DOE-HQ MILESTONE
AT RISK
AS Of : September 30, 1996


Richland Environmental Restoration Project
MILESTONE & PERFORMANCE MEASURES SUMMARY SCHEDULE
OPERABLE UNIT
Fiscal 1996
1st Qtr
2nd Qtr
3rd Qtr.
4th Qtr
Fiscal 1997
Fiscal 1998
BY QTR
Fiscal 1999
Fiscal 2000
Fiscal 2001
Fiscal 2002
Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep
100 Area Proj. (Cont'd)
100-HR-1
IROD 9/29/95A
M-13-35
Complete Investigative Derived Waste (IDW) disposal for 37 waste sites included in the IROD
M-16-26A
Initiate Remedial Action,
M-16-26B
Complete Remediation, Backfill and revegetation of 37 Waste sites in the 100-BC-1, 100-DR-1 & 100-HR-1 OUs
100-HR-2
M-16-06-T01
Submit Operations Waste Mgmt. Plan Draft A
M-16-06B
Begin system operations
M-16-06C
Submit Performance Evaluation Report
100-HR-3
(Groundwater)
M-16-06A
Submit Performance Monitoring Plan, Draft A
100-KR-1
M-13-33B
Submit IRM Proposed Plan
(10/20/95A)
PM
100-KR-2
M-16-06-T01
Submit Operations Waste Mgmt. Plan Draft A
M-16-11
Begin system operations
M-16-06C
Submit Performance Evaluation Report
100-KR-4
(Groundwater)
M-16-06A
Submit Performance Monitoring Plan, Draft A
100-IU-2
100-IU-6
M-13-00J
Submit Plan Documentation for RI/FS Work Plan
"No Action" Proposed Plan
IROD 2/27/96A
100-IU-1
100-IU-3
100-IU-4
100-IU-5
TPA MILESTONE
TPA WORK PLAN SCHEDULE
FORECAST
PM
PERFORMANCE MEASURE
DOE-RL MILESTONE
DOE-HQ MILESTONE
AT RISK
AS Of : September 30, 1996


Richland Environmental Restoration Project
MILESTONE & PERFORMANCE MEASURES SUMMARY SCHEDULE
OPERABLE UNIT
Fiscal 1996
Fiscal 1997
Fiscal 1998
Fiscal 1999
Fiscal 2000
Fiscal 2001
Fiscal 2002
1st Qtr
2nd Qtr
3rd Qtr.
4th Qtr
BY QTR
Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep
100 Area Proj. (Cont'd)
100- Area (D & D)
100- Area (D & D)
100- Area (D & D)
100-N Area (Deactivation)
100-N-1/2 (RCRA/CERCLA)
100-N Springs (Pump & Treat) (Barrier Wall)
100 Common
FY96-PM-09 Complete demolition of 183-C Filter Bldg Structural Steel
FY96-PM-01 RARA Surface Stabilization of (4) Sites
C-97-01 Complete negotiations for dispositioning (D&D) eight surplus reactors, Purex & UO3
FY97-PM-D06 Complete D&D of 119-B Exhaust Air Sample Bldg
FY97-PM-D01 Complete D&D of 1714-C Solvent House
M-16-01A Submit 100-N D&D/RI/EPA Documents for public review
FY97-PM-D03 Complete D&D of 1701-BA Bldg
FY97-PM-D05 Complete D&D of 1702-C Guard House
(6/27/97A)
FY96-PM-03 183-H Solar Basins Demolition
FY96-PM-11 Complete Characterization & Assessment of 104-B-1 Tritium Vault
FY96-PM-02 Asbestos Abatement for (4) Buildings
FY97-PM-D02 Complete D&D of 103-B Unirradiated Fuel Storage Bldg
FY96-PM-12 Complete Characterization & Assessment of 104-B-2 Tritium Lab
FY97-PM-D04 Complete D&D of 1608B Vacuum House
FY96-PM-11 Complete Characterization & Assessment of 105-C Water Tunnels
FY96-PM-10 Complete Characterization & Assessment of 105-C Water Tunnels
M-16-01E-T3 Complete characterization of N Reactor Fuel Stor. Basin sludge & debris (TBD)
M-16-01E-T2 Initiate pre-treatment and removal of N-Reactor Fuel Storage Basin Waters
FY96-PM-04 Complete Deactivation of (19) Bldgs in N-Area
FY96-PM-07 Deactivation and Stabilization of 1300-N Dump Basin
(11/15/97F)
M-16-01E Complete N-Reactor/100-N Area Deactivation (per defined scope)
M-15-12A LFI for New Work Completed on RFI/CMS Work Plans
M-15-12C Submit CMS include FFS & IRM for Groundwater & CMS/FFS - IRM for all sites
M-15-12B Submit CP/CMS for 1301 N 1325-N & 1324-N
(1/15/97F)
M-15-80B-T01 DOE-RL provides EPA/Ecology an initial recommendation for CRCIA "next phase(s)" budgeted work to be used as input into the FY 1999 budget submission (to include recommendations for FY 1998). Recommendations are to be based on CRCIA workscope prioritization discussions with the CRCIA Team
M-16-12E Submit Letter on Pump Treat Facility Effectiveness, including (Evaluation of modified Barrier Wall)
M-16-12B Complete Sheet Pile Wall Construction
M-15-80 Submit a draft interim report (considered an initial Screening Assessment Report) for the CRCIA by the CRCIA Team which incorporates human health and ecological risk assessments and documents completion of the Phase I work detailed on page items 1 & 4
M-15-80A DOE-RL provides a list of comprehensive work scope tasks developed and prioritized in coordination with CRCIA Team (not based on funding)
M-15-80-T01 Submit a revised report of the draft from M-15-80 which incorporates responses to comments from the CRCIA Team, Technical Peer Reviewers and the Public
M-15-80B DOE-RL provides a recommendation for follow-on work to M-15-80, based on primarily on M-15-80A and funding considerations, overall Sitewide objectives, and TPA authority. This will include future Milestones
(6 Months after EIS ROD or equal)
M-16-01B Complete negotiations of 100-N Area D&D work schedules
(09/30/2000F)
M-15-00A Complete all remaining 100 OUs' pre-ROD site investigations
M-16-00F Establish date for completion of all 100 Area Remedial Actions
TPA MILESTONE
TPA WORK PLAN SCHEDULE
FORECAST
PM
PERFORMANCE MEASURE
DOE-RL MILESTONE
DOE-HQ MILESTONE
AT RISK
AS Of : September 30, 1996


Richland Environmental Restoration Project
MILESTONE & PERFORMANCE MEASURES SUMMARY SCHEDULE
OPERABLE UNIT
Fiscal 1996
1st Qtr
2nd Qtr
3rd Qtr.
4th Qtr
Fiscal 1997
Fiscal 1998
BY QTR
Fiscal 1999
Fiscal 2000
Fiscal 2001
Fiscal 2002
Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep
200 Area Projects
M-15-02E-T03
EPA to Issue Final
ROD Due Date 6/1/94
200-BP-1
200-BP-2
200-BP-11
200-IU-3
200-PO-1
(Groundwater)
200-PO-2
200-PO-4
200-PO-5
200-RO-1
200-SO-1
M-15-25
Submit Phase I RCRA Field Investigation (RFI) Report
M-15-25A
Submit Corrective Measures Study (CMS)
M-15-25B
Submit Permit Modification
PM
M-13-13
Submit 1 (RFI/CMS) Work Plan
M-13-14
Submit RFI/CMS Closure/Post Closure Work Plan
M-13-11
Submit RFI/CMS Closure/Post Closure Work
M-20-33
Submit 216-A-10/36 Crib Closure/Post Closure Work Plan along with 200-PO-2 Work Plan
M-13-12
Submit RFI/CMS Closure & Post Closure Work
M-20-52
Submit 216-A-37 Crib Closure/Post Closure Work Plan along with 200 PO-4 Work Plan
M-13-16
Submit RFI/CMS Closure/ Post Closure Work Plan
M-20-39
Submit 216-S-10 Crib Closure/Post Closure Work Plan along with 200-RO-1 Work Plan
M-20-53
Submit 207-A Retention Basin Closure/Postclosure Plan along wit
M-13-17
Submit RFI/CMS Closure/ Postclosure Work Plan
M-13-15
Submit RFI/CMS Closure/Post
M-20-54
Submit 241-CX Tank System Closure/Postcloure Plan along with 200-SO-1 Work Plan
TPA MILESTONE
TPA WORK PLAN SCHEDULE
FORECAST
PM
PERFORMANCE MEASURE
DOE-RL MILESTONE
DOE-HQ MILESTONE
AT RISK
AS Of : September 30, 1996


Richland Environmental Restoration Project
MILESTONE & PERFORMANCE MEASURES SUMMARY SCHEDULE
Fiscal 1996
Fiscal 1997
Fiscal 1998
Fiscal 1999
Fiscal 2000
Fiscal 2001
Fiscal 2002
1st Qtr
2nd Qtr
3rd Qtr.
4th Qtr
BY QTR
OPERABLE UNIT
Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep
200 Area Proj (Cont'd)
200-UP-1 (Groundwater)
200-UP-2
200-ZP-1 (Groundwater)
200-Common
ERDF
300 AREA PROJECTS
300-FF-1
300-FF-2
300-FF-5 (Groundwater)
300-Common
1100 AREA
Program Support
Common Areas
M-15-15C Submit FFS Report
M-15-15E Submit Final Draft LFI, FFS and IRM Proposed Plan (Incl. 216-U-12 RCRA Closure/PostClosure Plan)
M-15-15D Submit IRM Proposed Plan
M-15-91A RCRA/CERCLA Groundwater Coordination Report
M-15-91B Iodine - 129 Study
M-16-04A Initiate the 150 gmp treatment system
M-16-04B Complete the 300 - 500 gpm treatment system upgrades
M-20-00 Submit Part B Permit Applications or Closure/Postclosure Plans for all RCRA TSD Units for 200 Area
M-13-00K Submit 2 RI/FS (RFI/CMS) Work Plans for 200 NPL areas (200-PO-6) (200-ZP-2)
M-13-00L Submit 2 RI/FS (RFI/CMS) Work Plans for 200 NPL areas (200-BP-4) (200-IU-1) (200-NO-1)
M-16-00 ERDF is Operational
FY97-PM-R01 Complete excavation of 300 Area Process Trenches
FY97-PM-R04 Complete excavation of 618-11 Burial Ground
FY97-PM-R05 Complete excavation of Ash Pits (Test Pits Only)
IROD 7/17/96A
M-15-23A Submit LFI Report
M-15-23B Submit FFS Report
M-15-00B Complete all remaining 300 OUs' pre-ROD site investigations
M-16-03A Establish date for completion of all 300 Area Remedial Actions
M-16-05A-T3 Complete 1100 Area Site Restoration (e.g. revegetation)
M-16-03A Submit Constr. Completion reports for remaining 1100 Area's OUs
C-10-03 DOE will Reissue the Hanford Site Waste Mgmt. Units Report (HSWMUR)
C-10-04 DOE will Reissue the Hanford Site Waste Mgmt. Units Report (HSWMUR)
C-10-05 DOE will Reissue the Hanford Site Waste Mgmt. Units Report (HSWMUR)
TPA MILESTONE
TPA WORK PLAN SCHEDULE
FORECAST
PERFORMANCE MEASURE
DOE-RL MILESTONE
DOE-HQ MILESTONE
AT RISK
AS Of : September 30, 1996

11/2?/96

Month End: October 1996

Richland Environmental Restoration Project
FY 97 Project Forecast Summary

1/?6/96

BHI/RL/PNL/Others

Line No.	Column 1 ADS & DESCRIPTION	Column 2 FY 199" MYWP	Column 3 CURRENT APPROVED BUDGET (BCWS)	Column 4 EAC (OCT 1996)	Column 5 Variance (Col 4 - Col 3)	Column 6 ACTUAL + ACCRUED COST (ACWP) (OCT 1996)	Column 7 FY 1997 Authorized Funding	Column 8 FY 1997 Requested Funding
1	***Remedial Actions & ERDF Projects***							
2	3000 - SST's							
3	3100 - 100-DR Source Remedial Action	5,966.8	6,149.6	6,083.0	(66.6)	193.6	5,966.8	5,966.8
4	3100 - 100-BC Source Remedial Action	6,301.6	6,936.3	6,737.0	(199.3)	82.3	6,301.6	6,301.6
5	3100 - 100-KR Source Remedial Action							
6	3100 - 100-FR Source Remedial Action	2,619.8	2,619.8	2,620.0	0.2	0.9	1,119.8	1,119.8
7	3100 - 100-FR North Slope (USACE)							
8	3100 - 100-HR Source Remedial Action	1,206.7	1,414.0	1,424.0	10.0	31.8	1,206.7	1,206.7
9	3200 - 200-BP Remedial Action	1,268.0	1,268.0	1,277.0	9.0	49.4	1,268.0	1,268.0
	3200 - 200-NPL Common Remedial Action	402.7	425.5	452.0	26.5	14.3	425.5	425.5
10	3200 - 200-UP Remedial Action		84.5	51.0	(33.5)	1.8		
11	3300 - 300-FF Remedial Action	6,518.7	6,734.4	6,737.0	2.6	189.6	3,418.7	3,418.7
12	3390 - 1100-EM (BHI)							
13	3390 - 1100-EM (USACE,USF&W,Nez Pierce)							
14	3700 - ER Disposal Facility	14,841.4	15,887.9	16,428.0	540.1	983.4	13,844.4	13,844.4
15	**Subtotal Remedial Actions/Waste Disposal Projects:**	**39,125.7**	**41,520.0**	**41,809.0**	**289.0**	**1,547.1**	**33,551.5**	**33,551.5**
16	***Groundwater Management***							
16	3110 - 100-BC Groundwater Remedial Action					0.4		
17	3110 - 100-KR Groundwater Remedial Action	2,443.5	4,466.3	4,352.0	(114.3)	428.4	2,443.5	2,443.5
17	3110 - 100-FR Groundwater Remedial Action					(0.2)		
18	3110 - 100-HR Groundwater Remedial Action	3,421.8	5,543.3	5,565.0	21.7	190.9	3,421.8	3,421.8
19	3115 - 100-BC Groundwater Monitoring	293.7	293.7	294.0	0.3	6.1	28.7	28.7
20	3115 - 100-FR Groundwater Monitoring	292.1	292.1	292.0	(0.1)	5.8	28.3	28.3
21	3115 - Common GW Monitoring/Risk Assessment	460.8	460.8	461.0	0.2	0.1	447.8	447.8
22	3125 - 100-NR Remedial Actions	3,192.4	4,453.4	4,460.0	6.6	178.4	2,254.1	2,254.1
23	3210 - 200-BP Groundwater Remedial Action					0.1		
24	3210 - 200-PO Groundwater Remedial Action		54.6	54.0	(0.6)	5.6		
25	3210 - 200-UP Groundwater Remedial Action	1,615.1	1,618.2	1,614.0	(4.2)	64.4	1,615.1	1,615.1
26	3210 - 200-ZP Groundwater Remedial Action	3,051.1	4,282.6	4,102.0	(180.6)	33.8	3,051.1	3,051.1
27	**Subtotal Groundwater Mgmt:**	**14,770.5**	**21,465.0**	**21,194.0**	**(271.0)**	**913.8**	**13,290.4**	**13,290.4**
28	***D&D AREA***							
29	3020 - RCRA Closures					9.0		
30	3500 - RARA	3,000.0	3,037.8	3,038.0	0.2	58.7	3,000.0	3,000.0
31	3500 - 100 Area Surveillance & Maintenance	3,525.3	3,551.7	3,703.0	151.3	188.4	3,525.3	3,525.3
32	3500 - 200 Area Surveillance & Maintenance	3,250.0	3,839.5	3,837.0	(2.5)	187.1	3,250.0	3,250.0
33	3510 - Asbestos Abatement	40.5	70.8	69.0	(1.8)	(6.7)	40.5	40.5
34	3510 - 100 Area D&D	9,478.3	10,440.8	10,812.0	371.2	257.1	8,578.3	8,578.3
35	3510 - 200 Area D&D	2,955.6	2,955.6	3,022.0	66.4	49.2	1,546.9	1,546.9
36	3800 - Post Remediation Surveillance & Maintenance	198.0	200.9	201.0	0.1	0.6	198.0	198.0
37	**Subtotal D&D Area:**	**22,447.7**	**24,097.1**	**24,682.0**	**584.9**	**743.4**	**20,139.0**	**20,139.0**
38	***N AREA PROJECTS***							
39	3600 - N Reactor Deactivation	7,207.0	7,819.7	7,951.0	131.3	540.1	7,207.0	7,207.0
40	3600N - N Basin Cleanup	6,309.0	9,149.6	9,149.6		367.2	8,109.0	8,109.0
41	Subtotal N Area:	13,516.0	16,969.3	17,100.6	131.3	907.3	15,316.0	15,316.0
42	***Program Management & Support***							
43	3400 - Program Support (BHI)	37,919.1	40,186.6	39,996.0	(190.6)	2,405.7	34,987.7	34,987.7
44	3410 - Program Support (RL)	7,020.0	7,020.0	7,020.0		35.2	6,477.5	6,477.5
45	OMB 5% Holdback							6,540.0
46	*TOTAL APPROVED SCOPE:*	134,799.0	151,258.0	151,801.6	543.6	6,552.5	123,762.1	130,302.1

(conformed by DOE-HQ)

47	*APPROVED SCOPE CHANGES:*							
48	Carryover Funding -BHI		Incl Above	Incl Above				11,315.4
49	3410 - Carryover Funding/Scope - RL		1,189.9	1,189.9				1,189.9
50	3410 - Carryover Funding/Scope - RL		725.2	746.0	20.8			746.0
51	Additional Funding from HQ							1,237.0
52	FY95 Distrib Rate Closeout			200.0	200.0			
53	FY95 Heavy Equipment Rate Closeout			200.0	200.0			
54	3125 - Eliminate N Springs P&T Monthly Report		(17.3)	(17.3)		BCP 97030	Approved 11-19-96	
55	3510 - Defer 108F Bio-Lab Remediation		(951.9)	(951.9)		BCP 97037	Approved 11-19-96	
56	3510 - Defer Assessment for 116-B Exhaust Stack		(98.8)	(98.8)		BCP 97036	Approved 11-19-96	
57	3400 - Defer Baseline Update Scope to FY97		(150.0)	(150.0)		BCP 97031	Approved 11-19-96	
58	3500 - Redox Seismic Investigation		367.0	367.0		BCP 97028	Approved 11-19-96	
59	3500 - Defer of 105D/DR Basin Isolation		(367.0)	(367.0)		BCP 97029	Approved 11-19-96	
60	3500 - Design Change Remote Monitoring at REDOX		76.4	76.4		BCP 97034	Approved 11-19-96	
61	3500 - Addition of 244-AR, 242-T, 209-E to Facility Transition Spt		10.0	10.0		BCP 97019	Approved 11-19-96	
62	3125 - Decrease NR-2 Characterization GW Sampling		(73.5)	(73.5)		BCP 97040	Approved 11-19-96	
63	3400/3410 - XFR Cultural Resources Support to BHI					BCP 97041	Approved 11-19-96	
64	**Subtotal Approved Changes:**		710.0	1,130.8	420.8			14,488.3
65	*TOTAL APPROVED SCOPE:*	134,799.0	151,968.0	152,932.4	964.4	6,552.5	123,762.1	**144,790.4**

(includes carryover)

66	*PENDING SCOPE CHANGES:*								CUM EAC FCST
67	*N-BASIN:*								152,932.4
68	3600 - N Basin FY 97 Schedule Impact		2,307.0	2,307.0		BCP 97046			155,239.4
69	3600 - Extend N-Area S&M through FY97		598.5	598.5		*BCP 97054 Under review by M. Hughes*			155,837.9
70	3600 - Extend 100-N Building System Deactivation through FY97		300.0	300.0		*BCP 97055 Under review by M. Hughes*			156,137.9
71	3600 - Project Distributables		438.0	438.0		*Under review by M. Hughes*			156,575.9
72	*FUNDING IMPACTS: (Alternative #3)*								156,575.9
73	Productivity Challenge to Projects			(4,000.0)	(4,000.0)	*Future EAC Reductions*			152,575.9
74	3400 - Distributable Rate Adjustment		(2,000.0)	(2,000.0)		*BCP Needs to be Written*			150,575.9
75	3100 - Pass Group 4 Remedial Design Costs to Subcontractor		(1,000.0)	(1,000.0)		*BCP Needs to be Written*			149,575.9
76	3115 - 100-FR-3 Eliminate GW Monitoring/Analysis		(263.8)	(263.8)		BCP 97033			149,312.1
77	3115 - 100-BC-5 Eliminate GW Monitoring/Analysis		(270.0)	(270.0)		BCP 97032; Under review w/Regulators			149,042.1
78	3125 - Eliminate Insitu Treatment Zone Test		(1,500.0)	(1,500.0)		*BCP Needs to be Written*			147,542.1
79	3510 - Delay Start of Remediation B76on 233-S Facility		(709.0)	(709.0)		BCP 97038			146,833.1
80	3400 - Defer/Delete Other PM&S Scope		(850.0)	(850.0)		*BCP Needs to be Written*			145,983.1
81	3210 - Defer Prototype Barrier Asphalt Testing		(500.0)	(500.0)		*BCP Needs to be Written*			145,483.1
82	3100/3300/3700 - Optimize BC-1/DR-1 Rem; Defer 300-FF-1 Rem to July 97		(1,134.4)	(1,134.4)		*BCP Needs to be Written*			144,348.7
83	3100 - Defer/Rescope Group 4 Remedial Design		(750.0)	(750.0)		*BCP Needs to be Written*			143,598.7

Month End: October 1996

FY 97 Project Forecast Summary

BHI/RL/PNL/Others

Line No.	Column 1 ADS & DESCRIPTION	Column 2 FY 1997 MYWP	Column 3 CURRENT APPROVED BUDGET (BCWS)	Column 4 EAC (OCT 1996)	Column 5 Variance (Col 4 - Col 3)	Column 6 ACTUAL + ACCRUED COST (ACWP) (OCT 1996)	Column 7 FY 1997 Authorized Funding	Column 8 FY 1997 Requested Funding	CUM EAC FCST
84	***PENDING SCOPE CHANGES:***								CUM EAC FCST
85	***OTHER PENDING SCOPE CHANGES:***								143,598.7
86	3410 - Eliminate FY97 PNNL VROF/IROF Reserve		(940.0)	(940.0)		*BCP Needs to be Written*			142,658.7
87	3410 - Transfer Laundry Service from BHI to RL		459.0	459.0		*BCP Needs to be Written*			143,117.7
88	3xxx - Transfer Laundry Service from BHI to RL		(459.0)	(459.0)		*BCP Needs to be Written*			142,658.7
89	3400 - Additional BHI 3161 Restructuring Costs		1,000.0	1,000.0		*BCP Needs to be Written*			143,658.7
90	3115 - USACE Final Cost Closure		(500.0)	(500.0)		*BCP Needs to be Written*			143,158.7
91	3115 - CRICA Screening Assessment Scope for PNNL		250.0	250.0		BCP PER-002			143,408.7
92	3115 - CRICA Estimating Support for PNNL		50.0	50.0		BCP 97052			143,458.7
93	3600 - Vegetation Sampling and Analyzing Program		65.0	65.0		BCP 97056			143,523.7
94	3020 - 183-H Solar Evaporation Basins Waste Removal		212.0	212.0		BCP 97020			143,735.7
95	3100 - Wastewater Mgmt and Disposal Group A Design		60.0	60.0		BCP 97018			143,795.7
96	3400 - Benchmarking for Core Team, ES&H, QA, Planning & Controls		329.0	329.0		BCP 97027			144,124.7
97	3400 - Ten Year Plan Implementation/Revision (PBSs)		540.0	540.0		BCP 97026			144,664.7
98	3500 - N&S Process for PUREX S&M		141.0	141.0		BCP 97025			144,805.7
99	3500 - 190-C Revised IVC Activities and Re-evaluate OH Crane		80.0	80.0		BCP 97024			144,885.7
100									144,885.7
101	**Subtotal Potential Changes:**		(4,046.7)	(8,046.7)	(4,000.0)				
102	***TOTAL APPROVED & PENDING SCOPE:***	134,799.0	147,921.3	144,885.7	(3,035.6)	6,552.5	123,762.1	144,790.4	
103	***SUPPLEMENTAL SCOPE CHANGES FROM MYWP:***								CUM EAC FCST
104	3200 - Composite Analysis Support		74.0	74.0					144,959.7
105	3200 - Inactive Misc Underground Storage Tanks		46.0	46.0					145,005.7
106	3110 - 100-HR-3 D Area Hot Spot - Investigate Possible Chromium Plume		600.0	600.0					145,605.7
107	3210 - 200-UP-1 IDW Waste		41.0	41.0					145,646.7
108	3210 - 200-ZP-1&2 IDW Waste		195.0	195.0					145,841.7
109	3400 - Performance Measures		2,000.0	2,000.0					147,841.7
110	3115 - ISRM (REDOX) Technology Application		588.0	588.0					148,429.7
111	3115 - GW Modeling/Risk Assessment (Phase II)		1,250.0	1,250.0					149,679.7
112	3510 - 200 Area Canyon Strategy - Phase II SAP & Phase III		1,682.0	1,682.0					151,361.7
113	3400 - PAAA		245.0	245.0					151,606.7
114	3400 - Necessary & Sufficient Sustaining Support		211.0	211.0					151,817.7
115	3125 - Pore Water Sampling		169.0	169.0					151,986.7
116	3125 - River Bottom Survey		22.0	22.0					152,008.7
117	3110 - 100-HR-3 D&D of Pump & Treat System		80.0	80.0					152,088.7
118	3510 - 100-C Area Foundation Removal Assessment & Remediation		1,013.0	1,013.0					153,101.7
119	3600 - Roof Repair for Building 105-N		554.0	554.0					153,655.7
120	3100 - 100 Area Common Waste Site Reclassification		292.0	292.0					153,947.7
121	3300 - 300-FF-2 Waste Site Reclassification		203.0	203.0					154,150.7
122	3200 - 200 Area Waste Site Reclassification		130.0	130.0					154,280.7
123	3400 - EDMS (Paperless Office Support)		308.0	308.0					154,588.7
124									154,588.7
125	**Subtotal Supplemental Changes:**		9,703.0	9,703.0					
126	***TOTAL APPROVED, PENDING & SUPPL SCOPE:***	134,799.0	157,624.3	154,588.7	(3,035.6)	6,552.5	123,762.1	144,790.4	
127	***SCOPE DEFERRALS DUE TO FUNDING IMPACTS***								CUM EAC FCST
128	3510 - Accelerate 108F Bio-Lab Remediation		951.9	951.9					155,540.6
129	3300/3700 - Accelerate the Start of 300-FF-1 Remediation		1,000.0	1,000.0					156,540.6
130									
131									
132									
133									
134									
135	**Subtotal Supplemental Changes:**		1,951.9	1,951.9					
136	***TOTAL APPROVED, PENDING, SUPPL & DEFER SCOPE:***	134,799.0	159,576.2	156,540.6	(3,035.6)	6,552.5	123,762.1	144,790.4	

Attachment 1 TPA Milestone Review 11/26/96

PUREX Transition Project

PUREX TRANSITION PROJECT UPDATE

M-80 TRI-PARTY AGREEMENT MILESTONE

November 26, 1996

FUTURE M-80 TPA MILESTONES

NUMBER	MILESTONE TITLE/ DESCRIPTION	MILESTONE DATE	ECD
M-80-00-T06	Complete deactivation of the PUREX Plant 211-A Area	April 1997	Nov. 1996
M-80-04	Complete deactivation of the PUREX Plant U Cell/ Fractionator	April 1997	Dec. 1996
M-80-00	Complete PUREX and UO3 Plant's transition phase and initiate the surveillance & maintenance phase	July 1998	Sept. 1997

M-80 TPA MILESTONES COMPLETED

NUMBER	MILESTONE TITLE/ DESCRIPTION	MILESTONE DATE	ACD
M-80-00-T01	Issue DOE approved end point criteria for the UO3 Plant	Dec. 1994	Dec. 1994
M-80-01	Complete deactivation of PUREX Plant R Cell	April 1995	April 1995
M-80-00-T02	Complete all UO3 Plant transition activities and initiate Surveillance & Maintenance phase	June 1995	Jan. 1995
M-80-00-T03	Submit options and recommendations for final management of Tank 40 organic material to EPA and/or Ecology	June 1995	June 1995

M-80 TPA MILESTONES COMPLETED

NUMBER	MILESTONE TITLE/ DESCRIPTION	MILESTONE DATE	ACD
M-80-02-T01	Submit proposed end point criteria for transition of PUREX	June 1995	June 1995
M-80-00-T04	Complete removal of concentrated (recovered) 203-A nitric acid at PUREX	June 1996	Dec. 1995
M-80-00-T05	Complete implementation of selected alternative for management of spent fuel from PUREX	Dec. 1996	Dec. 1995
M-80-03	Remove process waste solutions from Tanks D5 and E6	Jan. 1997	April 1995
M-80-02-T02	Submit PUREX Surveillance & Maintenance Plan	May 1996	May 1996

M-80 TPA MILESTONES COMPLETED

NUMBER	MILESTONE TITLE/ DESCRIPTION	MILESTONE DATE	ACD
M-80-02	Submit the end point criteria and Surveillance & Maintenance Plan in support of the PUREX preclosure work plan	July 1996	July 1996
M-80-00-T07	Complete deactivation of the PUREX Plant sample gallery	June 1997	July 1996
M-80-05	Complete deactivation of the PUREX Plant aqueous makeup area	June 1997	July 1996
M-80-06	Complete deactivation of the PUREX Plant canyon	June 1997	July 1996

M-80 TPA MILESTONES COMPLETED

NUMBER	MILESTONE TITLE/ DESCRIPTION	MILESTONE DATE	ACD
M-80-07	Complete deactivation of the PUREX Plant 203-A Area	April 1998	Nov. 1996

M-20 TPA MILESTONE COMPLETED

NUMBER	MILESTONE TITLE/ DESCRIPTION	MILESTONE DATE	ACD
M-20-24A	Submit a PUREX preclosure work plan to EPA and Ecology	July 1996	July 1996

PROJECT STATUS REPORT	B & W HANFORD COMPANY 7.1 FACILITY STABILIZATION PROJECT	OCTOBER 1996

PROGRAM MANAGER'S ASSESSMENT

WBS Program	ES&H Compliance	Customer	Technical	Schedule	Cost	Comments
7.1.1 PUREX	■	■	■	■	□ -	

■ Outstanding □ Good ◊ Satisfactory o Marginal ◘ Unsatisfactory + Improved from Last Month - Worsened from Last Month ↑ Improved Future Outlook ↓ Worsened Future Outlook

SIGNIFICANT ACCOMPLISHMENTS

- Completed all HVAC preswitchover activities
- Isolated raw water supply and blanked sanitary water system to PUREX
- Started the critical portion of the PUREX ventilation switchover
- Completed canyon lighting for BHI surveillance route which was final area for surveillance lighting
- Completed 165 end points in October - overall total of 1115 out of 2525
- Shipped sulfuric acid storage tank (TK-50) off site for disposal
- Approved PUREX Interim Safety Basis
- Set new power substation

SIGNIFICANT PLANNED ACTIONS

- Deactivate U Cell/Fractionator
- Complete 211-A area deactivation
- Complete installation of new power substation
- Continue modification/shutdown of HVAC systems to one operating stack
- Install SAMSCON Unit for remote instrument monitoring
- Complete deactivation of other ancillary facilities

ISSUES

- None

PROJECT STATUS REPORT	B & W HANFORD COMPANY 7.1 FACILITY STABILIZATION PROJECT	OCTOBER 1996

EXPENSE COST PERFORMANCE

($ DOLLARS IN THOUSANDS)

PROGRAM ELEMENT WBS & ADS	FISCAL YEAR TO DATE										COMMENTS
	BUDGETED COST		ACTUAL COST	VARIANCE							
	WORK SCHED	WORK PERF	WORK PERF	SCHED	COST	BAC	EAC	FYSF	EXPECTED FUNDS FY 1996	PROJECTED CARRYOVER WORKSCOPE	
1KP1 PUREX S & M 7.1.1.1 (6622-0)	1,121	1,121	689	0	432	12,523	11,584	11,584	12,523		
1KP4 - Transition 7.1.1.4 (6622-0)	896	1,311	773	415	538	10,643	10,643	10,643	10,643		
1KP5 - Compliance 7.1.1.5 (6622-0)	95	95	56	0	39	773	773	773	773		
TOTAL	2,112	2,527	1,518	415	1,009	23,939	23,000	23,000	23,939	0	

EAC is defined as the estimate of what it is going to cost to complete the work as defined by the FYWP and Class I changes.
FYSF is defined as the estimated total that will be spent from October through September.
Expected Funds is defined as total funding guidance expected at fiscal year end (includes anticipated approval of change requests, carryover, reprogramming actions and reserve holdback).

NON-TPA REGULATORY ISSUES/POTENTIAL IMPACT TO TPA

- None

Attachment 5
TPA Milestone Review
11/26/96

TPA Milestone Review

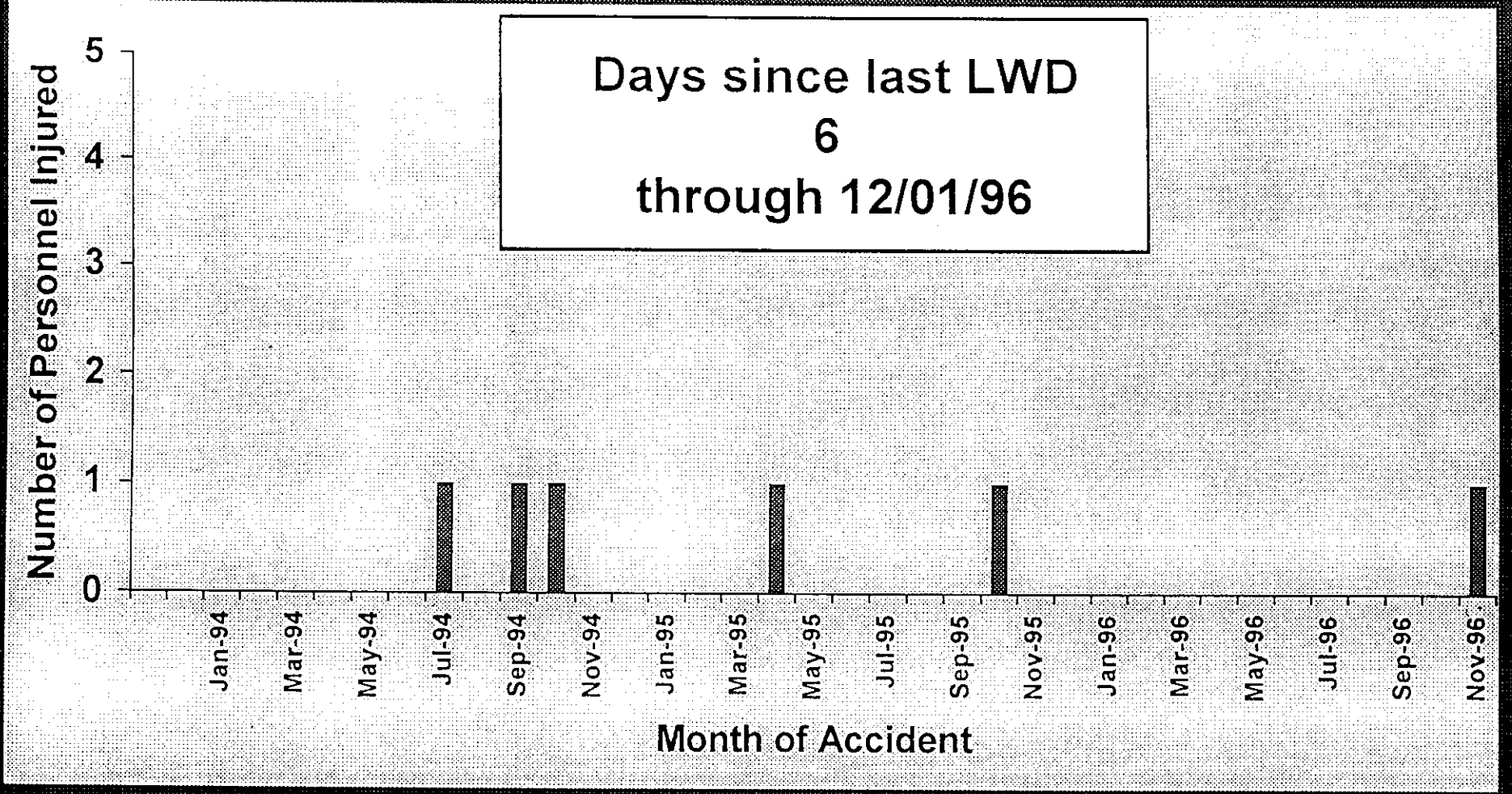
Advanced Reactors

(FFTF)

WBS 7.3

FFTF Will Improve Safe Conduct of Work by Minimizing Injuries and Their Impact to Workers

Injuries Leading to Lost Work Days



SITE MANAGEMENT SYSTEM	7.3 ADVANCED REACTORS TRANSITION	Mar – Sept 1996

PROGRAM MANAGER'S ASSESSMENT

WBS	PROGRAM ELEMENT	ES&H COMPLIANCE	CUSTOMER	TECHNICAL	SCHEDULE	COST	COMMENTS
7.3	**ADVANCED REACTORS TRANSITION**	■	■	■	■	■	

LEGEND

RATING GRADIENT SYMBOLS

- ■ Outstanding
- □ Good
- ◇ Satisfactory
- ○ Marginal
- ◉ Unsatisfactory

INDICATORS

- \+ Improved from last month
- – Worsened from last month
- ↑ Improved future outlook
- ↓ Worsened future outlook

Advanced Reactors Transition
September 1996
FY 1996 Status

($000)

	BCWS	BCWP	ACWP	SCHEDULE VARIANCE	COST VARIANCE	BAC
Expense	58164	58448	56459	284	1989	58193

Advanced Reactors Transition's four ADSs are all in B&R EX–70.

Filename: C:\LTSDATA\96MIDYEAR.WK3

SIGNIFICANT ACCOMPLISHMENTS

- Completed washing/storage of 63 irradiated fuel assemblies.
- Sodium Storage Facility construction complete - October 25, 1996.
- Reactor vessel drilling demonstration conducted in sodium environment.
- Completed turnover of 308 Building to ERC.
- Removed two PCB contaminated transformers in August 1996.

SIGNIFICANT PLANNED ACTIONS

- Receive direction on FFTF transition from DOE-HQ (Secretary of Energy) by January 1, 1997.
- Complete Sodium Storage Facility Readiness Assessment by January 31, 1997.
- Continue with fuel offload, based on direction received from DOE-HQ.
- Proceed with Sodium Drain activities, per direction received from DOE-HQ.

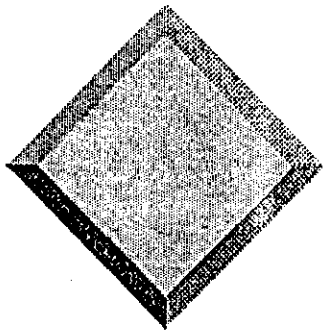
ISSUES

Issue Non-Defense funding for Advanced Reactors has been reduced by $8.04M. Also, a general Hanford Site tax and increases in other workscope and rates will reduce funding by an additional $2.8M.

Impact A significant workscope impact has resulted from these reductions.

Status Evaluations are ongoing to determine specific program impacts and recommendations. BWHC is awaiting written direction relative to the actual reduction for FY 1997 Advanced Reactors funding; once received, baseline changes will be initiated.

Attachment 6
TPA Milestone Review
11/26/96



IAMIT MILESTONE STATUS M-82-00

RL Presenter: D. T. Evans

Contractor Milestone Manager: R. E. Heineman

RL Division Director: J. E. Mecca

TRANSITION MILESTONES

- *Submit End Point Criteria for Transition of B Plant - June 1996*
- **Complete Deactivation of the B Plant 211-B Area - January 1997**
- **Complete Removal of Organic Solvent Waste from the B Plant Canyon - June 1997**
- **Submit B Plant Surveillance and Maintenance Plan - June 1997**
- Complete Deactivation of the B Plant Aqueous Makeup Area - May 1998
- Complete Deactivation of the B Plant Liquid Effluents Area - May 1998
- Document Hazardous Substances/Dangerous Wastes Remaining within B Plant - June 1998

TRANSITION MILESTONES (Cont.)

- Complete Disposition of Organic Solvent Waste - September 1998
- Complete Decoupling of WESF from B Plant - December 1998
- Submit a B Plant Preclosure Work Plan to Ecology - March 1999
- Complete Deactivation of the B Plant Canyon - September 1999
- Complete Isolation/Stabilization of Retired Filters and Provide Operating Canyon Ventilation system for S&M Phase (Project W-059) - September 1999

RL PROGRAM MANAGERS ASSESSMENT OF CONTRACTOR PERFORMANCE

PROJECT STATUS REPORT	7.1.7/7.1.8 B PLANT/WESF COMPLEX	OCTOBER 1996

WBS	PROGRAM	ES&H Compliance	Customer	Technical	Schedule	Cost	Comments
7.1.7	B PLANT COMPLEX	□	□	□	●(1)	+◇	1) AHR & WESF activities remain behind schedule.
7.1.8	WESF COMPLEX	+□(2)	◇	◇	●(1)	◇	2) WESF USQ JCO approved by RL.

LEGEND

RATING GRADIENT SYMBOLS		INDICATORS	
■	Outstanding	+	Improved from last month
□	Good	--	Worsened from last month
◇	Satisfactory	↑	Improved future outlook
○	Marginal	↓	Worsened future outlook
●	Unsatisfactory		

SIGNIFICANT ACCOMPLISHMENTS (Past 3 mo.)

- **Complete Deactivation of the B Plant 211-B Area - January 1997**
  - Performed housekeeping and removed all combustible materials
  - Isolated drum and truck/rail loadout lines
  - Installed intrusion barriers on tank vent lines
  - Isolated pathways from the environment
  - Conducted a confined space assessment
  - Overall

    Completed 8 of 25 End Points

    Deactivation of 211-B Area 57% complete – on schedule

SIGNIFICANT ACCOMPLISHMENTS (CONT.)

- **Complete Removal of Organic Solvent Waste from the B Plant Canyon - June 1997**
  - Completed testing of prototype solids separating filter units
  - Completed procurement of 3 full size filter units
  - Completed modifications to filter units for Canyon installation
  - Completed draft SAP for organic characterization
  - Completed sampling and commenced preliminary characterization to validate SAP procedures
  - Completed two series of water washes
  - Completed secondary containment basin construction
  - Completed design and commenced fabrication of transfer system

SIGNIFICANT ACCOMPLISHMENTS (CONT.)

- **Submit B Plant Surveillance and Maintenance Plan - June 1997**
  - Determined surveillance path and prepared facility maps
  - Initiated draft of S&M Plan

SIGNIFICANT PLANNED ACTIONS (Next 6 mo.)

- **Complete Deactivation of the B Plant 211-B Area**
  - Deactivate and isolate utilities
  - Drain and isolate heaters and lines
  - Drain and deactivate deionized water storage tank
  - Label abandoned equipment and post area
  - Document amount and location of hazardous materials remaining

SIGNIFICANT PLANNED ACTIONS (Next 6 mo.)

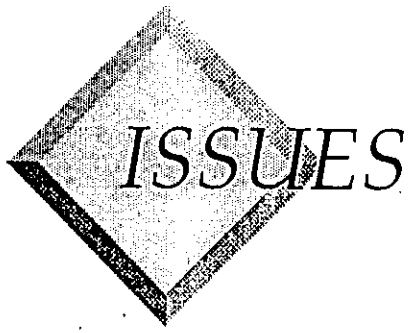
- **Complete Removal of Organic Solvent Waste from the B Plant Canyon**
  - Complete solids separating
  - Complete H3PO4 washes
  - Complete fabrication of transfer system
  - Complete readiness assessment of transfer operation
  - Transfer material from canyon

SIGNIFICANT PLANNED ACTIONS (Next 6 mo.)

- **Submit B Plant Surveillance and Maintenance Plan**
  - Prepare preliminary draft for B Plant review
  - Incorporate comments and submit to BHI for review
  - Incorporate comments and submit to RL for review
  - Incorporate comments and submit to Ecology

BUDGET/COST STATUS

- **Complete Deactivation of the B Plant 211-B Area**
  - Budgeted to date $20.8K (BAC at $28.3K)
  - Cost to date $11.5K
  - Cost to date includes charges from 276-B and 211-BB deactivation
- **Complete Removal of Organic Solvent Waste from the B Plant Canyon**
  - Budgeted to date $145.6 (BAC at $953.2K)
  - Cost to date $75.0K
- **Submit B Plant Surveillance and Maintenance Plan**
  - Budgeted to date $6.0K (BAC at $43.6)
  - Cost to date $0.3K



- **General**
  - Awaiting approval of milestone package from EPA and Ecology
  - Awaiting assignment of Ecology project manager
- **Complete Deactivation of the B Plant 211-B Area**
  - None
- **Complete Removal of Organic Solvent Waste from the B Plant Canyon**
  - None
- **Submit B Plant Surveillance and Maintenance Plan**
  - None

Attachment 1 for
Milestone Revised
11/26/96

TPA Major Milestone M-89

Complete Closure of
Non-Permited Mixed Waste
Storage Units in the 324 Building
REC and HLV

November 26, 1996

Milestone Description/Deliverable

- M-89-01: Complete Removal of 324 Building HLV Tank Mixed Waste (MW) (status: complete)
- M-89-02: Complete removal of 324 Building REC B-Cell MW and Equipment. (status: on schedule, pending funding resolution)
- M-89-03: Achieve Compliance with Interim Status Facility Standards on Non-Permitted 324 Building MW Units (status: complete)

Milestone Description/Deliverable

- M-89-04: Submit to Ecology a Report Identifying Management Options for Achieving Clean Closure. (status: complete)
- M-20-55: Submit Closure Plan for Non-Permitted MW Units Located in the 324 Building (status: complete)

RL Program Managers Assessment

- ES&H: To be provided by DOE
- Technical: To be provided by DOE
- Schedule: To be provided by DOE
- Cost: To be provided by DOE

Significant Accomplishments (last three months)

- M-89-01: Completed Ahead of Schedule (9-30-96)
- M-89-02: Removed 870 ft^3 of High Dose LLW from B-Cell

Significant Planned Actions (next six months)

- Resolution of Funding Shortfall
- Initiate Removal Activities for Next Large Equipment Rack (pending funding)
- End Point Criteria
- ~~Issue~~ Submit Closure Plan to Ecology

Budget/Cost Status

- B-Cell Cleanout has an FY 97 Funding Shortfall of $8.5M
- Addition Source of Funding is being Pursued Through DOE-HQ
  - FY 97 budget is ~~$~~ 14M for 324

Issues

- Funding Shortfall Could Delay Completion of M-89-02 ~~Past Due~~ (5/99)